UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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SHENZHEN CARKU TECHNOLOGY CO. LTD.,

Petitioner,

v.

THE NOCO COMPANY,

Patent Owner.

_____

U.S. Patent No. 9,007,015

_____

DECLARATION OF YINGCHUN WAN

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I, Yingchun Wan (Wanny), hereby declare and state as follows:

1. I am the Sales Manager for Shezhen Carku Technology Co., Ltd. (Carku). I was also the Sales Manager for Carku in 2013 - 2014. I have personal knowledge of the facts stated in this declaration.

2. Carku made publications and technical information about its jump starter products publicly available at the 115th China Import and Export Fair 2014, Guangzhou, China (2014 Canton Fair) on April 15 - May 5, 2014, in which Carku offered for sale and demonstrated and used its Epower-20 and Epower-21 jump starters products. A true and correct copy of a photograph showing the Carku booth at the 115th 2014 Canton Fair, showing some of the information provided about the Epower-20 and Epower-21 products is attached as Exhibit A. I personally took the photographs presented in Exhibit A on April 15, 2014 and shared the photographs with coworkers through WeChat, a popular Chinese Social Media App. A brochure describing the 115th Canton Fair in 2014 is attached as Exhibit B. The Canton Fair is one of the largest trade shows in the world. According to a press release from the China Foreign Trade Center, attached as Exhibit C, dated May 5, 2014, the 115th Canton Fair attracted 188,119 overseas buyers.

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3. Carku also published, distributed, and handed out brochures describing the Epower-20 and Epower-21 jump starter products at the 2014 Canton Fair. Attached to this declaration as Exhibit D are copies of the brochures describing the Epower-20 and Epower-21 jump starter products that Carku published, distributed, and handed out at the 2014 Canton Fair. The Epower-20 and Epower-21 jump starter products and corresponding brochures were on display and publically accessible to everyone during the entire period of the 2014 Canton Fair from April 15 to May 5, 2014. Our booth was easily accessible to anyone who attended the 2014 Canton Fair. We encouraged any potential buyers who visited our booth to take a brochure and take photographs of our displayed products (e.g. Epower-20 and Epower-21). The people who visited our booth during the 2014 Canton Fair had a variety of backgrounds. Some of them were professionals in the field, and others were common buyers, who were interested in our products. Carku s staff, including myself, explained to almost every potential buyer visiting our booth the specifications of Epower-20 and Epower-21 jump starter products and handed out the corresponding brochures to them. Nearly every potential buyer took photographs of our displayed products. Besides the extra copies of the Epower-20 and Epower-21 brochures were made available to potential buyers at the fair, the organizer of the 2014 Canton Fair also provided photocopy machines, should any buyers need extra copies of the brochures of interested products on display.

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4. Carku product brochures (e.g. Epower-20B and Epower-21) and catalog information were also sent to distributors and to the NOCO Company between December 2013 and May 2014.

a. On March 5, 2014, I sent an Epower-20B brochure attached in an email to Mr. Johnathan Nook at the NOCO Company. Carku and NOCO had been negotiating a contract manufacturing agreement prior to that time. A true and correct copy of that email and attached brochure are attached as Exhibit E.

b. On March 7, 2014, I sent photographs of Carku s Epower-21 product and a quotation sheet as attachments in an email to Mr. Thomas Lenz at Edelbert Lenz GmbH & Co. KG, an Austrian distributor for Carku products. A true and correct copy of that email and attachments are attached as Exhibit F.

c. On April 21, 2014, I sent product information on Carku s Epower-21 product and a brochure for the Epower-21 product as attachments in an email to Sofia at KAZ CO., LTD., a Japanese distributor for Carku products. A true and correct copy of that email and attachments are attached as Exhibit G.

d. On April 23, 2014, I sent a product catalogue, which describes Carku s Epower-20B and Epower-21 products, as an attachment in an email to Mr. Giuseppe Orfano at Kraugtli (Schweiz) AG, a Switzerland distributor for Carku

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products. A true and correct copy of that email and attachments are attached as Exhibit H.

e. On April 27, 2014, Mr. Xingliang (Leo) Lei sent a product brochure for Carku s Epower-21 product and intelligent jumper cable as attachments in an email to Mr. Andrew Polonsky at AMTORG LLC, a Ukraine distributor of Carku s products. Mr. Lei later showed me the correspondence between him and Mr. Plonsky, in my capacity as the Sales Manager at Carku, and because he always keeps me informed about any potential lead of buyers. So I have personal knowledge of the correspondence between Mr. Lei and Mr. Polonsky. A true and correct copy of the email and attached brochures that Mr. Lei showed me is attached to this declaration as Exhibit I.

5. As part of Carku s global marketing strategy, Carku encourages its distributors described in paragraphs 4b, 4c, 4d, and 4e to copy and forward the Epower-20B and Epower-21 brochures and intelligent jumper cable descriptions, and the product information contained therein, to their clients, customers, interested professionals in the field, and the general public, for promotional and marketing purposes. We did not place any restriction on disseminating the brochures and product information contained therein among the interested professionals or the general public. On information and belief, I understand that the

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foregoing distributors did copy, forward, and share these brochures within days of our having forwarded them to the distributors via email.

6. Carku also had correspondence with the NOCO Company beginning in December 2013, in which I and others distributed literature, product information, and sample products to NOCO.

a. On or about December 21, 2013, Jonathan Nook, who I understand is the President (or one of the senior officers) of the NOCO Company, contacted Carku to ask if Carku could provide price quotations and samples of Cark jump starter products.

b. On or about December 22, 2013, I sent Mr. Nook a catalog of Carku products by email. A true and correct copy of that email and the attached catalog is attached as Exhibit J. On or about December 23, 2013 I sent Mr. Nook a quotation for two samples of Carku Epower-01-elite product. A true and correct copy of the email with that quotation is attached as Exhibit K. On January 9, 2014, Ms. Linda Szymanski, Procurement and Inventory Manager at NOCO, made payment for the requested samples. In response, I shipped two samples of Carku s Epower-01-elite product through FedEx on January 10, 2014. A true and correct copy of the email is attached as Exhibit L. The FedEx tracking No. is 803484694277 and shipping address is provided below:

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The NOCO Company R&D Division

6802 W. Banff Lane

Peoria, AZ 85381

Attn: R. Stanfield

Tel: 216-464-8131 ext. 203

c. On January 10, 2014, Mr. Nook requested to meet with Carku at our headquarters in Shenzhen, China, on January 16, 2014. We agreed to the meeting, which took place on January 16, 2014. On January 9, 2014, we further shared two testing reports of our Epower products and smart starter clamp with Mr. Nook by email. A true and correct copy of the email with the testing reports is attached as Exhibit M. The testing reports described Carku s smart jumper cable and Epower product lines. Besides Mr. Nook, the other persons from NOCO who attended the meeting included Mr. Derek Underhill (Senior Vice Present of Industrial Design at NOCO) and Ms. Pelen Yip (An Italian-English-Cantonese-Mandarin interpreter). At the meeting, we demonstrated the Carku Epower-01-elite jump starter and the Carku s smart cable products. On or about January 17, 2014, Mr. Nook, in an email, expressed NOCO s interest in Carku s smart cable and smart circuits contained therein, and subsequently requested us to ship samples of Carku s smart cable to NOCO s engineers. On or about January 22, Mr. Nook again requested us to ship samples of Carku s smart cable to NOCO s engineers. I responded that we

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would send those to NOCO after Carku and NOCO signed a collaboration or other sort of joint development agreement. A true and correct copy of the relevant emails in which Mr. Nook requested the samples and my response are attached as Exhibit N. However, neither Mr. Nook nor anyone on behalf of NOCO ever signed an agreement with Carku, nor did Carku ever reach an agreement for NOCO to treat Carku s catalog, sample products, brochures, or other technical information confidentially or not to disclose any of the information, catalogs, samples, or technical information Carku had shared with Mr. Nook or NOCO. By February 7, 2014, Mr. Nook and NOCO had stopped corresponding and communicating with Carku.

d. On March 5, 2014, I sent a copy of the Carku Epower-20B product brochure to Mr. Nook by email, and asked him whether NOCO was still interested in working with Carku. (See Exhibit E). Mr. Nook did not respond to that email.

e. Through sending the emails with the Carku product catalog and Carku product brochures to Mr. Nook (*see, for example* paragraphs 4a and 6d), Carku made that information publicly available, including making them publicly available to Mr. Nook and to the NOCO company, as well as the other information concerning the Carku products described above.

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7. Carku began offering a jump starter product for sale on Amazon in 2013. A Carku EPower jump starter product identified as 2013 Newest EPOWER Multi-Function Jump Starter 12V Car 13200mAh Portable Battery Power for Car Laptop and Mobile Phone, which later was called Carku s Epower-01 product, was available for sale on Amazon.com starting on November 12, 2013. Attached to this declaration as Exhibit O is a true and correct copy of a screenshot from the Amazon.com website (https://www.amazon.com/Multi-Function-Starter-13200mAh-Portable-Battery/dp/B00GMJ00SA) showing this product listing, along with roll-over close up views of product pictures. The listing specifies the Amazon standard identification number (ASIN) is B00GMJ00SA, and that the Date First Available was November 12, 2013.

I declare under the penalty of perjury that the foregoing is true and correct.

Yingchun Wan — Yingchun Wan

2020.5.11 — Date

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Exhibit A


1:50
2014年4月15日 22:40
Epower-20
Epower-21
NEW
Carku jump starter 广交会第一天，趁人少的时候拍照留念，1.1 B09 欢迎您的光临
赞
评论
2
6

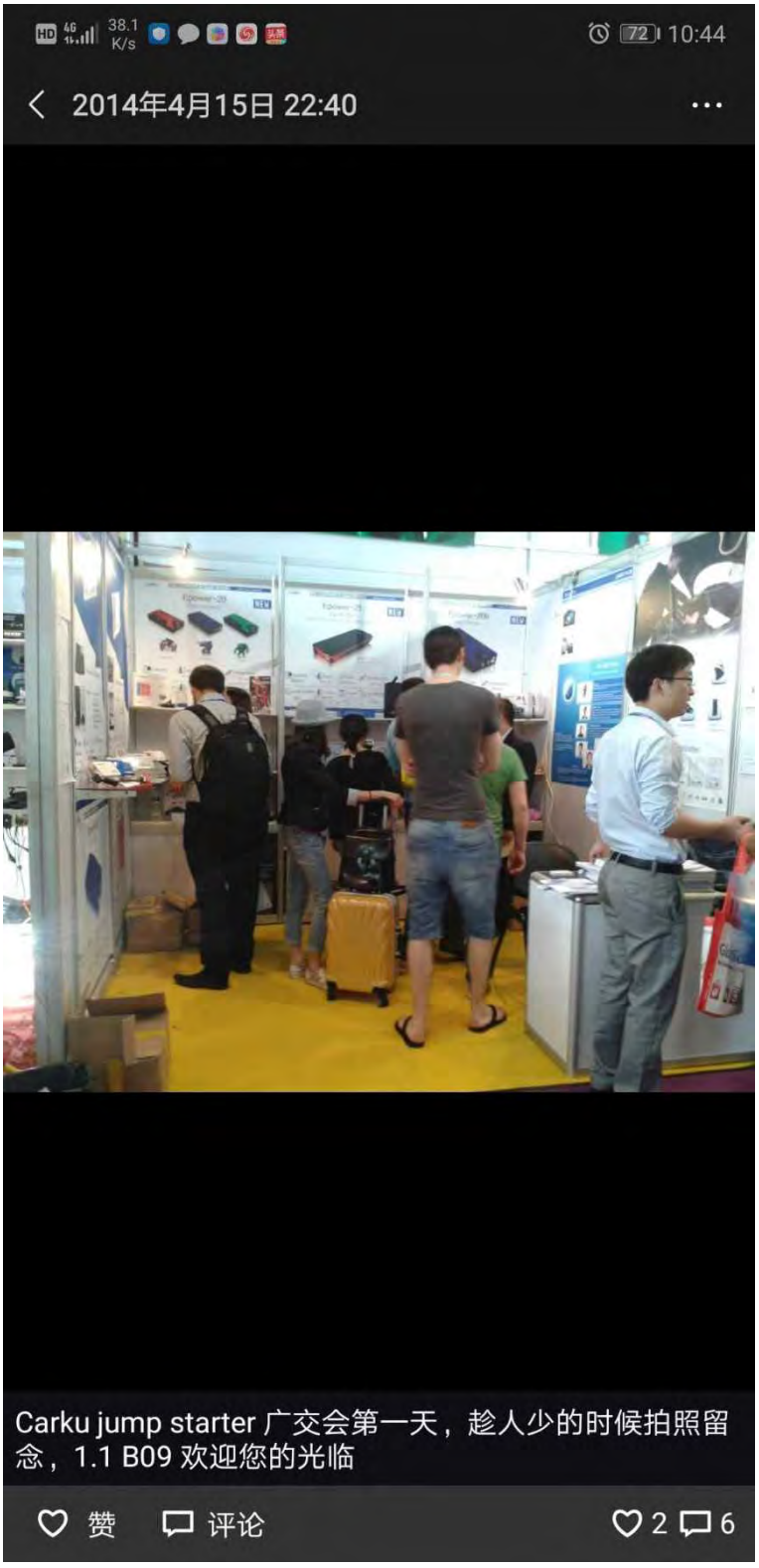

38.1 K/s
10:44
2014年4月15日 22:40
Carku jump starter 广交会第一天，趁人少的时候拍照留念，1.1 B09 欢迎您的光临
赞
评论
2
6

Exhibit B

Canton Fair 2014 (April, Spring) - The 115th China Import and Export Fair 2014

VENUE:	China Import and Export Fair Pazhou Complex, Guangzhou Location & Details of China Import and Export Fair Pazhou Complex, Guangzhou
VENUE ADDRESS:	No.380, Yuejiang Zhong Road, Guangzhou, China
ORGANIZER:	CFTC - China Foreign Trade Centre (Group)
Official Website:	Click to Visit
E-Mail:	info@cantonfair.org.cn webmaster@cantonfair.org.cn
Tel:	+86-20-2888 8999
Fax:	+86-20-2839 5166
CITY:	Guangzhou
INDUSTRY:	Complex Trade Show
DATE:	2014/04/15 - 2014/05/05 *Expired!*

EVENT'S PROFILE:

EXHIBITOR'S PROFILE:

Electronics & Household Electrical Appliances

Consumer Electronics

- Audio-video Products: Home Theaters, VCD，DVD，CD，LD，Microphones, Karaoke Equipment, TV, Set-top Boxes, Video Recorders, Tape Recorders, Re-readers, Radios, Megaphones, Loudspeakers, Car Audio System
- Personal Digital Entertainment Products: MP3, MP4, MD, Portable Music Players, Digital Cameras, Electronic Game Products
- Personal Communications: Mobiles, Pagers, Interphones, PDA

Electronic and Electrical Products

- Electronic Security equipment: Monitors, Sirens, Auto Security Products, Detectors, Sensors, Channel Control System, Home Security Products, Office Security Products, Automatic Security Products, Electronic Lock Systems, Smart Cards.
- Business Automation Equipment: Photocopiers, Electronic Bulletin Boards, Projectors, Shredders, Attendance Machines, Video Conference Meeting Equipment, Electronic Cash Registers, ATM, Card Machines, Bill Counters, Barcode Printers, Barcode Scanners, Data Collectors, IC Cards
- Electronic & Electrician Products：Optoelectronic Devices，Rectifiers, Inverters, Amplifiers, Transducers, Frequency Dividers, Power Relays, Adapters, Batteries, Voltage Transformers, Voltage Stabilizers, Power Inductors, Reactors, Circuit

Trade Show Not Listed?

Submit your trade show to us.

China Trade Show Calendar

Apr-2020	May-2020	Jun-2020
Jul-2020	Aug-2020	Sep-2020
Oct-2020	Nov-2020	Dec-2020
May-2021	Sep-2021	

Featured Organizers

Taiwan External Trade Development Council (TAITRA)
5-7 Fl., 333 Keelung Rd.,

Hong Kong Trade Development Council (HKTDC)
Hong Kong Convention and

Yiwu China Commodities City Exhibition Co., Ltd (CCC Exhibition)
CCC Exhibition,

Yiwu International Commodities Fair Co., Ltd (Yiwu Fair Exhibition)
International Expo

Taiwan Printed Circuit Association (TPCA)
No.147, Sec. 2, Gaotie N. Rd., Dayuan, Taoyuan 33743,

BIT Congress Inc.
11F, No.1 Hui Xian Yuan, Dalian Hi-tech Industrial Zone,Dalian, LN 116025,

Diversified Communications Hong Kong
Flat B, 32/F, @Convoy, 169

Follow Us

Breakers, Multimeters, Connectors, Measurement Equipment, Chargers, Electronic Testing Equipment, Electronic Components(Capacitance, Resistance, Transistors, Diode, Dynatron, Piezoelectric, Inductance Components, Loops, Sockets, Switches, Wires, Cables, Circuit Boards)

· Electric Equipment: Electric Furnaces, Transmission Line Hardware, Electrical Carbon Products, Wires, Cables, Electric Porcelain, Insulating Materials, Electrical Appliances, Batteries, and etc.

· New and Renewable Energy: Solar Power, Wind Power, Bio-energy, Tidal Power, Nuclear Power: Nuclear Engineering, Nuclear Power Plant and Related Technology and Equipment, Recycling System: Solid, Liquid, Vapor, Environment and Energy Consumption Monitoring System

Computer and Communication Products

· Computer Products

· Computer & Parts: Large & Medium-sized Computers, Mini Computers, Micro Computers, Desktops, Laptops, CD-drive, Floppy Drive, Memory, Hard Disks, CPU, Sound Cards, Video Cards, Main Boards, Keyboards, Mouse, Monitors, Computer Spare parts, Word Processors, and other Computers.

· Computer Peripherals: Printers, Disks, CDs, Tapes, Scanners, Web-cams, CD-writers, UPS, and other Peripherals

· Computer Network Equipment: Servers, Modems, Routers, Hubs, Network Cards, Work Stations, Switches

· Computer Software: Operation Software, Office Software, Accounting Software, Management Software, Image Design Software, Computer Security Software, Network Tool Software， Game software， Education Software，Multi-media Software, Developing & Programming Software, Translation & Dictionary Software

· Communication Products: Telephones, Fax Machines, Interphones, Communication Cables, Antenna & Receivers, Pagers, Radio Sets, Rader Navigation equipment, Satellite Communication Equipment, Satellite Receivers, and other Communication Facilities.

Household Electrical Appliances

· Kitchen Appliances: Microwave Ovens, Electric Heat Pots, Electric Rice Cookers, Electric Ovens, Gas Cookers, Kitchen Ventilators, Exhaust Fans, Dishwashers, Disinfection Cabinets, Food Processors, Juice Extractors, Kitchen Mixers, Cleaning Filters.

· Refrigerators & Refrigeration Equipment: Refrigerators, Freezers

· Air Conditioners & Ventilation Equipment: Air Conditioners, Fans, Air Humidifiers, Air Dryers, Air Purifiers.

· Washing & Drying Machinery: Washing Machines, Drying Machines, Electric Irons.

· Other Small Electrical Appliances: Calculators, Water Heaters, Hairdryers, Oxygen Machines, Electric Shavers, Electric Power Tools, Torches, Vacuums, Stoves, Mosquito Killers

Lighting Equipment

Lighting Equipment

· Application of Illumination System: Industry Lighting, Decorative Lighting, Emergency and Security Lighting, Entertainment and Stage Lighting, Office, Advertising and Exhibition Lighting, Outdoor Lighting.

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· Electric Light Source: Fluorescent Lamps, Energy Saving Lamps, Incandescent Lamps, Neon Lamps, Neon Lights, Iodine Tungsten Lamps, Magnesian Lamps, Bromine Tungsten Lamps

· Light Fittings: Lamp Shades, Lamp Posts, Optical fiber, Lamp Plates, Lamp Holders, Lamp Caps, Ballasts, Voltage Stabilizers, Voltage Transformers, Starters, Adapters, Converters, Sensors.

Vehicles & Spare Parts

Bicycles

· Bicycles: Bicycles, Electric Bicycles, Electric Scooters

· Bicycle Parts

Motorcycles

· Motorcycles, Beach Cars

· Motorcycle Parts

Vehicle Spare Parts

· Vehicle Spare Parts: Engines & Spare Parts, cooling, Lubricants & Fuel Supply Spare Parts, Transmission Parts, Steering & Brake Parts, Vehicle Dashboard & Parts, Auto Electric Equipment and Parts

· Tires

· Vehicle Spare Parts & Optimization Equipment

· Maintenance & Related Products

· Vehicle Decorations

Vehicles (Outdoor)

· Non-construction Vehicles: Cars, Coaches, Off-road Vehicles, Chassis, Trailers, Insulated Vans, Freezer Cars, Fuel Tankers, Buses, Ambulances, Fire Engines, Water Carts, Tool Carts, Aircraft Tractors, Special Vehicles of Airport, Trolley Buses & Equipment, Golf Trolleys, All-Terrain Vehicles, Armor Cash Carriers, Vans, Freight Cars, Dumpcarts.

Machinery

Small Machinery

· Instruments: Electronic Instruments, Electric Instruments, Microscopes, Surveying & Mapping Instruments, Observation Instruments, Physical Optical Instruments, Other Optical Instruments, Material Testing Machines, Geological Exploration Equipment and Instruments, Thermodynamic Instruments, Automation Instruments, Construction Test Instruments, Hydrological Instruments & Civil Engineering Instruments, Laboratory Instruments, Special Instruments, Other Physical & Chemical Instruments

· Camera Instruments: Cinematographic Instruments, Photographic Instruments, Other Photomechanical & Cinematographic Instruments

· Printing Apparatus

· Processing Machinery & Accessories: Machine Tool Accessories, Bench Drills, Grinders, Grinding Materials, Diamond & Diamond Products, Other Small Machinery

· Household Sewing Machines & Spare Parts, Weaving Supplies

· General Machinery

· Transport Equipment: Ship Equipment and Spare Parts, Underwater Special Equipment, Aeronautic Equipment and Spare Parts, Railway Vehicles and Related Equipment

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· Mechanical Fundamental Parts: Bearings, Hard Body, Chains, Spring, General Valves, Casting Products, Forging Products, Moulds, Gears, Powder Metallurgy, Pneumatic Components, Seal Components, Hydraulic Components and Parts, other Spare Parts.

· Fluid conveying machine: Pumps

Large Machinery & Equipment

· Large Machinery: Metal Cutting Machine Tools, Large Woodworking Machinery, Textile Machinery, Pharmaceutical Machines, Plastics Machinery, Packaging Machinery, Tobacco Machinery, Printing Machinery, Food Processing Machinery, Rubber Processing Machinery, Chemical Machinery, Forging Machinery, Foundry Machinery.

· Complete Sets of Equipment: Production Lines of Various Light Industry Products

Construction Machinery

Outdoor Open Area

· Construction Machinery: Forklifts, Excavators, Tipcarts, Truck Cranes, Crawler Cranes, Concrete Mixer Truck, Plate Compactors, Suspended Platforms, Brick Cutters

· Civil Construction Engineering Machinery: Mining Machinery, Hoisting Machinery, Coal Mine Machinery, Geological Machinery, Fire Fighting Machinery, Petroleum Machinery

· Agriculture and Forestry Machinery: Agricultural Transport Vehicles, Tractors, Boat-tractors, Farming Equipment, Power Driven Rice Transplanting Machines, Manual Rice Transplanting Machines, Drainage and Irrigation Machinery, Harvesting Machinery, Farmland Improving Machinery, Animal Husbandry Machinery, Spare Parts of Agricultural Machinery, Forestry Machinery

Outdoor Area under Awning

· Power Machinery: Power-generating Sets, Diesel Engines, Electric Welding Machines, Semi-automatic Gas Cutting Machines, Cutting Machines, and etc.

· Electric Power: Power Generators, Generating Sets, Transmission facilities, Synchronous Condensers, and etc.

· Gardening Machinery: Mowing Machines, Power-driven/Manual Sprayers.

· Agricultural and Sideline Products Processing Machinery (Blenders, Grinders, Oil Presses), Grain and Oil Processing Machinery, Cotton Processing Machinery, Animal Husbandry and Veterinary Machinery.

· Equipment Maintenance: Oil Nuzzle Washing and Sterilizing Machines, Vehicle Lifts, Used Oil Extraction Machines, Tyre Changers, Balancing Machines, Four Wheel Alignment Equipment.

· Small Construction Vehicles: Vibration Rammer, Small Suspended Platforms

Hardware & Tools

Hardware

· Hardware: Furniture Hardware, Construction Hardware, Decorative Hardware, Doors and Windows Hardware, Hardware Fittings, Iron Craft Products, Bathroom Hardware & Fittings, Locks and Fittings, Wire Meshes, Welding Materials, Low Pressure Valves, Water-heating Equipment, Cast Iron Products, Castings and Forgings, Fasteners, Sundry Hardware (Pulley, Metallic Hoses, Bank Nails, Chains), other Hardware Products

Tools

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· Tools: Measuring Tools, Grinding Tools, Cutlery, Manual Tools, Electric Tools, Pneumatic Tools, Hydraulic Tools, Welding Tools, Mechanical Tools, Cutting Tools, Farming Tools

Building Materials

Building and Decorative Materials

· Building Materials

· General Building Materials, Metal Building Materials, Chemical Industry Building Materials, Glass Building Materials, Cement Products, Fireproof Materials, Thermal Insulation Materials

· Coatings/Chemistry: Wall Surface/Waterproof/Floor Coatings, Coating Auxiliary, Coating Packaging Materials, Dry-mixed Mortar, Adhesives, Admixture, Auxiliary, Building Adhesives, Adhesive Tapes, Caulking Compound, Anti-rust Materials, Waterproof Building Materials, Waterproof Additives, Anti-leakage Materials, Waterproof Technologies and Related Equipment.

· Pipe Fittings

· Decoration Materials

· Tiles: Wall Tiles, Floor Tiles, Tiles for Decoration

· Wood Floor: Solid Wood Floor, Solid Wood Compound Floor, Laminate Wood Floor, Softwood Floor, Bamboo Floor

· Ceiling/Curtain Wall/Wallpaper and Indoor Decorations: Ceiling, Drop Ceiling, Wallpaper, Aluminum Sheets/ Lead Sheets/Point Supported/Unit/Metal Curtain Wall, Curtain Wall fittings and Processing Equipment, Sunshine Board, Gypsum Products, Steel Structures

· Doors & Windows: Wood Doors, Plastic Steel/ Aluminum Alloy/Steel Doors and Windows; Various Auto Doors, Door Control Systems and Fittings, Electronic Door Systems

· Stone Materials: Stone Floorings, Stones for Horticulture, Special-shaped Stones, Stone Materials, Stones; Man-made Stone Decoration Materials

· Glass: Artistic Glass, Building/Decorative Glass

· Kitchen Equipment: Kitchen Units, Cabinets, Washing Basins, Kitchen Hangs

Sanitary and Bathroom Equipment

· Sanitary Ceramics, Bathroom Units, Steam Rooms, Shower Relevant, Taps, Bathroom Mirrors, Bathroom Furniture, Water Heaters, Bathroom Heaters, Bathroom Cabinets, Partitions, Swimming Pool's Equipment

Chemical Products

Chemical Products

· Chemical Raw Materials: Inorganic acid, Sodium Compounds, Potassium Compounds, Calcium Compounds, Barium Compounds, Manganese Compounds, Chromium Compounds, Nickel Compounds, Zinc Compounds, Magnesium Compounds, Aluminum Compounds, Single Element Chemicals, Inorganic Chemicals Miscellaneous, Paraffin, Other Chemicals Wax, Coking and Oil Chemicals, Alcohol and Aldehyde Chemicals, Ester Chemicals, Ketonize and Ether and Phenol Chemicals, Alkane and Alkene and Alkyne Chemicals, Amine Chemicals, Aromatic Chemicals, Organic Chemicals Miscellaneous, Carboxylic Acid Chemicals, Other Chemical Raw Materials

· Dye and Intermediate, Pigment Raw Materials

· Plastic Raw Materials

· Agricultural Chemicals: Chemical Fertilizers, Pesticides, Growth Promoters, Agricultural Plastic Sheets, etc.

· Fire & Explosive: Explosives, Gunpowder, Civil Explosive Equipment, Pytophoric Alloy, Flammable Materials Products

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- Chemical Reagents
- Rubber

ORGANIZER'S PROFILE:

Name: CFTC - China Foreign Trade Centre (Group)
Address: Liuhua Road, No.117, Guangzhou, China
Tel: +86-20-8666 5851
Fax: +86-20-2608 0106

CFTC - China Foreign Trade Centre (Group) is an institutional unit directly led by **the Ministry of Commerce of the People's Republic of China. CFTC** is a professional exhibition sponsor with rich experience, and its exhibition history could be traced back to 1957, the starting year of China's exhibition industry.

In that year, the First session of **Chinese Export Commodities Fair (CECF also called the Canton Fair)** was held, and the Exhibition Hall of **CECF**, the predecessor of CFTC, was founded. Since 1957, the economic status of China and the world has witnessed amazing changes, while **CFTC** has always been dedicated to the accumulation of exhibition experience, research of exhibition market and exploration of industrial development rules, and applying its results to the continuous improvement of customer service and project exploration.

Since its foundation, **CFTC** has always been taking its mission of being "a tie of friendship and a bridge of trade" and has won great trust from millions of visitors and friends from 210 countries and regions in the world. **CFTC** helps deliver the economic achievements and friendship of China to the world.

YOU MAY ALSO BE INTERESTED IN:

China Expo Trade Shows List for Complex Trade Show

China Expo Trade Shows List by CFTC - China Foreign Trade Centre (Group)

China Expo Trade Shows List on China Import and Export Fair Pazhou Complex, Guangzhou

China Expo Trade Shows List in Guangzhou

China Expo Trade Shows List in Apr 2014

China Expo Trade Shows List in May 2014

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Exhibit C

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Press Release of the Concluding Press Conference of 115th Session of t Canton Fair

Font size: A+

Liu Jianjun, Spokesperson of the Canton Fair and the Deputy Director General of China Foreign Trade Cent
May 5th 2014

Friends from the press, ladies and gentlemen:

Good afternoon! Welcome to the concluding press conference of the 115th session of the Canton Fair.

The 115th Canton Fair is closing this afternoon. With slow recovery of global economy and greater risk of dowr China's foreign trade sector, the 115th Canton Fair continues to adopt the policy of "keep the momentum anc progress, forge ahead and spur innovation". We've made new efforts in exhibition topics, business pror information exchange and Fair services to make the Fair a more specialized and market-oriented one with influence. We've provided assistance to exhibitors in their global business expansion to develop their new com edges. As the Sate Council values the development of foreign trade sector, Premier Li Keqiang chaired the st committee in April 30th on relevant measures for steady foreign trade growth and structure optimization. Recer Ministry of Commerce has also discussed with relevant departments over policy measures to support foreign tra encourage the new competitive edges, so as to create a better environment for Chinese companies in foreigr sector and drive China's shift from a big trading nation to a strong one.

With the attention and leadership from the party committee of the Ministry of Commerce, the support of provinc municipal governments and other relevant agencies, and the concerted efforts of our staff, the 115th Canton Fa on smoothly and we reached our goals.

Now I would like to conclude to you the general situation of this session.

1. Slight decrease of buyer attendance

188,119 overseas buyers from 214 countries and regions around the world attended the 115th Canton Fair, a decrease over the 114th session and a 7.23% decrease over the 113th session.
Of all continents, Asia ranks No.1 in buyer attendance, taking up 55.46% of the total. No.2 is Europe 17.19% total, No.3 America 14.68% of the total, No.4 Africa with 9.27% share, and No.5 Oceania with 3.4% share respec

Compared with the last session, the number of buyers from Africa increased by 29.11%, from Asia increased by from Oceania decreased by 0.76%, from America down by 1.97%, and Europe down by 16.62%. Compared w

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States, India, Taiwan Province, Russia, Malaysia, Thailand, South Korea, Australia and Japan.
Buyer attendance from China's 2013 top ten trading partner countries and regions accounted for 59.40% of th 6.78 percentage points lower than the previous session.

Altogether 1,457 international chain companies attended the Fair, down by 3.57% compared with the 114th s 3,391 representatives from these companies attended the Fair, roughly the same compared with the last sessic out of the World 250 Retail Enterprises released in 2013 attended the Fair. Among them were 8 of the top 1 enterprises: Wal-mart, Carrefour, Tesco, Metro, Kroger, Costco, ALDI and Home Depot.
Among regular buyers, 51,479 attended the Fair for over 10 times, up by 3.55% over the 114th session; for c times there were 32,640, up by 3.95% over the last session. This shows that regular buyers are showing higher of loyalty.

2. The traditional markets face weak recovery while emerging markets limited demand. Chinese compani more attention to cultivating new advantages in foreign trade.

The accumulated export transaction of this session totaled 191.184 billion RMB (or 31.051 billion US doll decrease of 2.01% over the 114th session and a decrease of 12.64% over the 113th session (fluctuation of exc rate has been deducted).

The transaction with the EU, Japan, and the US was down by 1.3%, 7.93%, and up by 0.72% over the 114th s and decreased by 9.44%, 4.69% and up by 2.54% over the 113th session; with BRICS countries (India, Brazil, F and South Africa), increased by 5.11% over the 114th session and decreased by 12.96% over the 113th sessio the Middle East, an increase of 1.72% over the 114th session and a decrease of 21.87% over the 113th sessio ASEAN countries, a decline of 15.26% over the 114th session and 18.31% over the 113th session.

Transaction achieved by private enterprises was up by 2.4% over the 114th session and down by 8.26% over the session; turnover achieved by foreign invested enterprises was down by 12.83% over the 114th session and 1 over the 113th session; by state-owned enterprises down by 1.33% over the 114th session and 19.6% over the session.

The share of mid- and short-term orders was still high while that of long-term orders stayed low. Sho orders within 3 months took up 50.39% of the total; mid-term orders of 3 to 6 months 32.77% of the total; and lon orders 16.84% of the total.

Transaction in Brand Zone is brisk and brand enterprises focused more on developing new competitive based on technology, brand, quality and services. The turnover in Brand Zone took account of 33.98% of th Enterprises with indigenous brand, advanced design concepts, innovative technology and value-ad witnessed brisk transaction. More and more companies realized that it is an inevitable choice for thei growth to develop new competitive edges.

The International Pavilion attracted many great global enterprises. 539 enterprises from 43 countries and r exhibited their products. By May 4th, 89,982 people visited the International Pavilion, a 3.71% increase over the session. An Innovation Zone of electronic products is set up in Phase 1 to showcase high-tech products from a the world as an advanced stage for innovative and tech companies. In Phase 3, Fabrics and Textile has been er to include home textile to meet the one-stop purchasing demand of overseas buyers. It is widely recognized tha are more professional buyers in the International Pavilion this session with better effects achieved.

3. Canton Fair's premium information services were popular

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"Design Events to Promote Trade" series activities were very popular among exhibitors from home and abroad, companies and global buyers. 2680 companies took an active part in the design events as an opportu development their competitive edge. During this session, the space of Canton Fair PDC totaled 1,084.5 m2, up b over the 113th session. 70 design institutes from 11 countries and regions participated in the design display. Amc total 13,916 cases where customers had the intention, 3,875 cases may turn into projects. The 115th Canton Fair thematic forums and 3 targeted design match-making activities as well as 29 "Design Talks" events, with more under discussion and higher quality. The international market forum of this session took the theme of UAE and at more than 200 company representatives.

4. Good start of Canton Fair Green Development

In this session, we implemented the Green Development Plan on a full scale to promote low carbon and environ protection in the Fair. The number of green stands in this session stands at 30,476, accounting for 50.9% of th Exhibitors are more active in participating in the selection of green custom-built stands, with 778 exhibitors sig (238% increase over the 113th session) and 85 stands winning the title of "Green Custom Built Stands". As we l completed dismantling all the stands in Phase 3, the final precise data will be publicized after all stands dismantle Green Development Plan follows the trend of China's national policy and world's exhibition industry, and plays role for the upgrading and sustainable development of Canton Fair. The amount of waste planking, pollutan harmful gases emitted is much less than that in the 114th session. The pace of stand dismantling has been quic and efficiency improved.

5. The awareness of IPR protection of all parties was enhanced

In this session, the Canton Fair Complaint Station handled 490 IPR cases, with 664 exhibitors filed and 308 dete as constituting alleged infringement. Compared with the previous session, the number of cases handled decrea 2%, the number of filed enterprises increased by 8.67%, and the number of alleged infringement was up by 5.84' Station also dealt with 57 trade disputes, up by 29.55% over the last session. The 115th Canton Fair continued t Agency Badge for IPR complaints, and 27 agencies applied for the Badge.

6. Canton Fair E-Commerce is fully upgraded

In the 115th session, Canton Fair E-Commerce Platform has been fully upgraded to open registration to buyers f over the world (including non Canton Fair buyers), which attracts the attention of more buyers and improvec match-making. By May 4th, E-Commerce Platform witnesses new registration of 23,022 buyers, and effective bu information of 68,925 pieces; suppliers logged on 22,561 times, and buyers responded to inquiries 13,014 time highest page views in a single day was 63,038 and the highest unique page views in a day was 5,716.

On the E-Commerce Platform we also launched "Canton Fair E-Exhibition Service" in this session to bette making. Besides the Wuxi and Sanming trading delegation promotion events, we also held "10th Anniver "Soucing Salon of Brazilian Delegation", "Walmart Sourcing Day", "Sourcing Event of Indian Delegation", delegation touring porcelain industrial base in Foshan, providing offline services for suppliers and buyers. W initiated the promotion of overseas online marketing and online social community project to push product ar information to global market online, in order to improve the experiences and satisfaction of E-Commerce users.

7. Highlights in on-site services

We supervised our on-site services on a full scale and improved the efficiency of services. In the 115th session, application and issuing are faster, management of all staffs bettered, and the order in the complex is improv enrich the information services, we've opened a Canton Fair account in WeChat, pushing official informatic

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service, we received 44,807 cases of inquiry and business, contacted customers in 23,097 cases (a rema increase of 135%), and handled 1,757 cases from end to end.

The 115th Canton Fair was greatly supported by the provincial and municipal government, the relevant cor departments and the armed police force. The attending media from home and abroad gave comprehensive, ob and in-depth reports on efforts of exhibitors to promote innovation, build brands, develop new competitive edge on technology, brand, quality and services, and contribute to "stable growth, restructuring and transformatio behalf of the News Centre of the Canton Fair, I would like to express our sincere thanks for your hard work!

Thank you!

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Canton Fair Call Centre
The Chinese Mainland 4000-883-999
Outside the Chinese Mainland (86)20-88-883-999
Email: info@cantonfair.org.cn

Canton Fair Hong Kong Representative Office
(852) 28771818
China Foreign Trade Centre
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Recommend using Chrome or IE8 and above browser and a resolution above 1280*1024 to get the best view results.

Wechat APP

CFTC 中国对外贸易中心 CHINA FOREIGN TRADE CENTRE

中国进出口商品交易会展馆 CHINA IMPORT AND EXPORT FAIR COMPLEX

Exhibit D

Model: E-Power-20B

Specification		
Description of goods	Fast car charger	
Battery Capacity	37Wh(7500mAh)	
Dimension	155*74*31.5mm	
Weight	330g	
Output	5V/2A、5V/1A ---mobile phone, tablet PC, other digital devices 15V/10A ---car fast charge	
Input	14V/1A	
Operation Temp.	-20℃~60℃/-4℉~140℉	
Time to charge car battery	About 8minutes in fully discharge	

Standard Accessories	
1pc Home charger	Input: AC/100V-240V ， Output: DC/14V1A
1pc Car charger	Input / Output: DC 15V10A
1pc User Manual	




Accessories for Option		
3-in-1 Mobile Phone Cable	Micro USB, iPhone4, iPhone5	

Packing	
Individual Packing : EVA case+ Color box Size：26.5*19*6cm Whole set Weight: 1KG	
Carton	Size : 39.3*32*28cm, 0.07cbm/CTN
	Packing Rate: 10sets/CTN
	G.W.= 10 KG

Model: Epower-21

Specification		
Battery Capacity	66.6Wh (18000mAh)	
Dimension	230*87*27mm	
Weight	615g	
Output	5V/1A ---mobile phone, tablet PC, other digital devices 5V/2A --- tablet PC 12V/10A ---12V car electronic products（car air-compressor etc.） 19V/3.5A ---Laptop 12V car Jump Start	
Input	14V/1A	
Start Current	300A	
Peak Current	600A	
Operation Temp.	-20℃~60℃/-4℉~140℉	

Standard Accessories	
1pc Home charger	Input: AC/100V-240V ， Output: DC/14V1A
1pc Car charger	Input / Output: DC 14V1A
1pc Smart cable	For Jump start 12V vehicle use
8pcs Notebook connectors + 1pc switch cable	LENOVO，SONY，IBM，ACER，HP，DELL，SAMSUNG，NEC，…
3-in-1 Mobile Phone Cable	Micro USB, iPhone4, iPhone5
1pc User Manual	







Accessories for choice		
Cigar Socket Cable	12V10Aoutput switch cable	

Packing	
Individual Packing : PU Bag + Color box Size：250*267*62mm Whole set Weight: 1.5KG	
Carton	Size : 51.5*32*29.5cm, 0.07cbm/CTN
	Packing Rate: 10sets/CTN
	G.W.= 17 KG

Exhibit E

From: wanny <sales10@car-ku.com>
Sent: Wednesday, March 5, 2014 4:16 AM
To: Jonathan Nook
Subject: New products from Carku
Attachments: Carku Jump starter Epower-20B.pdf

Dear Jon.

How are you?Long time without news from your company.

Our new product Epower-20B has been selled in the market, which you were interested in when you came to our company.

Epower-20B can charge the vehicle battery as well as the smart mobile phone.There is no reverse charge or over-discharge problem.It's a very safe device.

Enclosed pls find the introduction of Eower-20B.

If you are interested in it, pls send me reply.

Best wishes

---

wanny

From: Jonathan Nook
Date: 2014-01-29 23:34
To: wanny
Subject: Re: NDA

Hi Wanny:

Happy new year to you as well. I will get the CA sent back to you as soon as you send the revised version. Our team member Linda Szymanksi sent you an email about the sample being sent to you. Will someone be there to receive it, or should we wait until after CNY. I will also be forwarding you the 3D models for the jump starter design that your team to use to adjust the design according. We will also provide a new 3D design of a different product, but you can use this design to understand how the buttons get molded into the housing, our draft angles, radius, and more.

I will prepare an order for your based on the last quotation. I want to get a detailed project plan right after CNY, so both companies are prepared to start development then.

Thanks. Jon

Jonathan Lewis Nook, MBA | CVO, President
The NOCO Company Since 1914
HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA
[Phone] 216.464.8131 x207 [Email] j@no.co [Skype] jonathannook
no.co

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On Jan 29, 2014, at 10:26 AM, wanny <sales10@car-ku.com> wrote:

Dear Jon,

I will send you the new Agreement later.

Happy new year!

Wanny

From: "Jonathan Nook <j@no.co>"
To: "sales10 <sales10@car-ku.com>"
CC:
Sent: 2014-01-28 03:25
Subject: NDA

Hi Wanny:

Our legal team reviewed the NDA and had the below change to paragraph number two. Please make the below change and send back to us to sign.

Revised language:
In an effort to pursue a mutually beneficial business relationship, the Parties are willing to exchange certain information relating to, in the case of NOCO, its proprietary 3D design of a plastic enclosure to house smart cable and, in the case of CarKu, its proprietary safety circuit for lithium jump starters. Each of the foregoing disclosures contains confidential information of the Parties, respectively.

-Jon

Jonathan Lewis Nook, MBA | CVO, President
The NOCO Company Since 1914
HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA
[Phone] 216.464.8131 x207 [Email] j@no.co [Skype] jonathannook
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Shenzhen Carku Technology Co.,Ltd, specialized in Lithium-ion battery technologies and is located in Shenzhen, China. Carku mini multi-function jump starter is 1st brand in China, Carku have got patent design certificate, CE, ROHS, FCC certificate and so on.Carku also design and manufacture the next generation of batteries for cars, trucks, motorcycles, personal watercraft(PWC), light aircraft and lawnmowers based on the advanced lithium-ion technology.

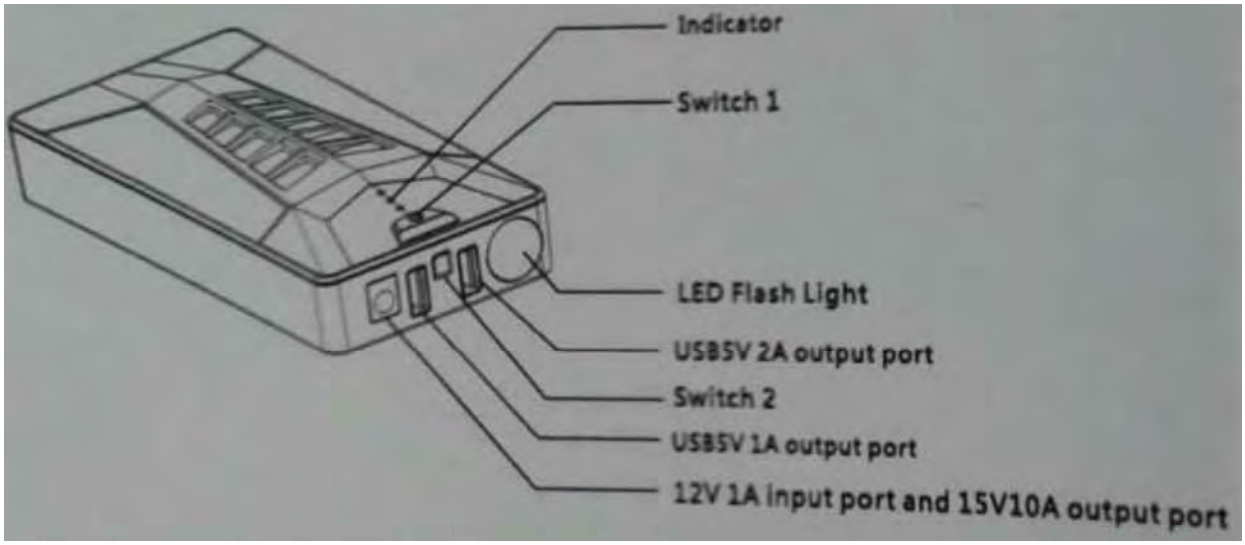


Introduction of Epower-20B



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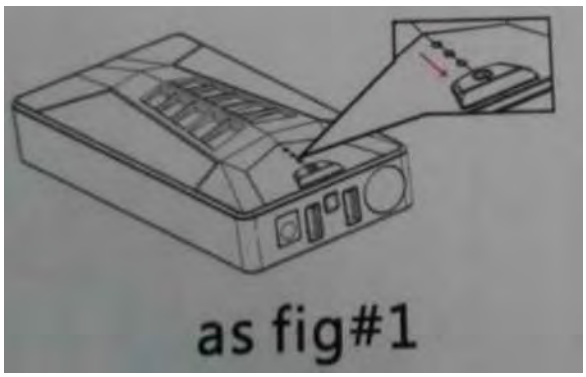


Technique data:

Size: 155*75*31mm
Weight: 325g
Battery capacity: 29.6Wh (8000mAh)
Input: 12V/1A
Output: 5V/2A, 5V/1A, 15V/10
Full charging time: 3hours
Operating temperature: -20°C~60°C

E-power charging 12V vehicle battery instruction:

1. It's better that the number of indicators always keep 3 ones.
2. Turn off all the automotive electronic equipments.
3. Plug the car adaptor into the socket of cigarette lighter
4. Connect 14V/10A output of E-power to the other end of car adaptor.
5. Press the [switch#1], he indicator will flash one by one from up to down during the period of E-power charging for car battery(as fig #1). About 5-10 min, indicator light off, charging finish.
6. Start the vehicle.
7. Leave the vehicle's engine running



Part list

No.	Parts Name	Quantity	Picture
1	main body	1	
2	Home charger	1	
3	Cigarette Plug	1	
4	Packing	1	

Shenzhen Carku Technology Co.,Ltd

ADD: 2 Floor, Block A, Tongsheng Technology Building,Huahui Road,Dalang, Longhua New District, Shenzhen China 518109

Tel: 86-0755-85298289-877 Fax: 86-0755-61673510

Mobile: 0086-13076965851/13714962190

QQ: 2850529792 Skype: carku15

Attn: Wanny Wan

Mail: sales10@car-ku.com

Website: http://www.car-ku.com

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Exhibit F

From: wanny <sales10@car-ku.com>

Sent: Friday, March 7, 2014 9:28 AM

To: Thomas Lenz

Subject: Re:AW: Fw: Jump Starter

Attachments: Quotation from Carku.pdf; Epower-21-1.jpg; Epower-21-2.jpg; Epower-21-3.jpg

Dear Thomas,

We have 18Ah multi-function jump starter Epower-21.Enclosed pls find the quotation as well as the picture.The price is FOB SHENZHEN,MOQ is 500pcs.

Tomorrow I will send you a detailed document to introduce the Epower-21.

Best wishes
Wanny

From: "Thomas Lenz "
To: "sales10 "
CC:
Sent: 2014-03-07 21:25
Subject:A W: Fw: Jump Starter

Dear Wanny,

do you also have jump Starters with **REAL 17 AH**Battery?

I need about 5.000 pieces per order.

I like to place 5-7 orders every yera.

Thank you and BR

Thomas

Von: wanny [mailto:sales10@car-ku.com]
Gesendet: Dienstag, 04. März 2014 04:47
An: Thomas Lenz
Betreff: Re: Fw: Jump Starter

Dear Thomas,

Thank you for your inquiry.

Shenzhen Carku Technology Co.,Ltd is a professional manufacturer of Mini multi-function jump starter, with patent design certificate. And the products has got CE, ROHS, FCC certificate for exportation. We have exported to America, Russia, Japan, Austrialia and lots of countries.

Our jump starter is Lithium Ion battery, not lead acid battery. It's 12Ah capacity. The small size is very popular in the market.With LED lamp, too.The start current is 200AMP, peak current is 400AMP. It can start the car from 1000CC to 3000CC.

Enclosed pls check our hot models of jump starter, pls advise if you are interested in them?

Looking foward to your reply.

Best wishes

Wanny

Foreign Sales Department Manager

Shenzhen Carku Technology Co.,Ltd

ADD: 2 Floor, Block A, Tongsheng Technology Building,Huahui Road,Dalang, Longhua New District, Shenzhen China 518109

Tel: 86-0755-85298289-877

Fax: 86-0755-61673510

Mobile: 0086-13076965851

0086-13714962190

QQ: 2769424685

Skype: carku15

Skype: yifengwan

Mail: sales10@car-ku.com

Website: http://www.car-ku.com

From: Thomas Lenz

Date: 2014-03-04 00:25

To: infocarku@car-ku.com

Subject: Jump Starter

Dear All,

I am looking for a Jump Starter:

Real 17 AH Battery (Lead Acid)

600 AMP Power

LED Lamp

I need about 10.000 pieces.

Please send me some informations and prices.

Best regards

Thomas Lenz

Mit freundlichen Grüßen / with best regards

Thomas Lenz

LenzTrade

Produktion & Vertrieb

Edelbert Lenz GmbH & Co. KG

Wiesenweg 2

6858 Schwarzach

Austria

Tel.: + 43 699 15824455

e-Mail:thomas.lenz@lenz-trade.com

SHENZHEN CARKU TECHNOLOGY CO.,LTD

2nd Floor A, Block A, Tongsheng Building, Huahui Road, Dalang, Longhua New District, Shenzhen China

CARKU 卡儿酷

Tel:0086 0755 85298289-877 Fax:0086 0755 61673510

Web site: http://www.car-ku.com E-mail: sales10@car-ku.com

Quotation

To:Thomas

No.:HSXF-140307

Date: 2014-03-07

NO	Model	Description of goods	Function	Technique data	Price($)/ 5,000pcs
1	Epower-21	Multi-function jump starter	1. Jump Start 12V vehicle 2. Supply for laptop 3. Charge/supply for mobile phone 4. Supply for automotive equipment 5. LED lighting Battery capacity:18Ah	Weight: 650g Output: 19V/3.5A, 12V/10A, 5V/2A, 5V/1A, 1W LED, 12V jump start Input: 12V/1A	65.6

1.Price term: USD, FOB SHENZHEN

2. Delivery time: within 20-25days after receiving deposit.

3.Payment term: 30% prepaid as deposit, pay the balance within 7days before shipping date.

4.Quotation valid time: 90days.

5. MOQ: 500pcs, OEM MOQ: 1000pcs

Bank information:

Benificial: SHENZHEN CARKU TECHNOLOGY CO.,LTD

Bank name:Agricultural Bank of China Shenzhen Baoan Sub-Branch

Bank address: NO.50 1st Jian an Road Baoan District Shenzhen China

Account No.: 410 217 000 400 585 47

SWIFT CODE: ABOCCNBJ410

SHENZHEN CARKU TECHNOLOGY CO.,LTD

Wanny

2014/3/7



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CARKU

Exhibit G

From: wanny <sales10@car-ku.com>
Sent: Monday, April 21, 2014 2:28 AM
To: ? ??
Cc: ?????
Subject: 产品信息Epower-21
Attachments: 产品信息.pdf; 21说明书.pdf; 家用充电器.jpg

hi sophia,
非常感谢您的回复！附件是我司Epower-21产品的配件详细说明，请查收。
说明书为中英文说明书，说明书里的输入为12V/1A,我司已经做了更改，正确的输入为14V/1A，请在翻译的时候更改过来。充电器的标贴内容请查收。
请问贵司何时支付货款，以便我安排订单生产？谢谢！
有何问题，随时与我联系。或请加我的skype:carku15.

---

wanny

From: 孫　暁飛
Date:
To: 'wanny'
CC: 今井デスク
Subject: RE: Proforma Invoice from Carku

Dear Wanny，

您好，我是KAZ公司的涉外担当sophia，很高兴能够认识您。

本次的订单我们会尽快确认，并将信息整理好后一并发给贵司。

贵司的这款产品以后将由我负责，有任何问题欢迎随时联系。

非常感谢！

㈱和コーポレーション（KAZ CO.,LTD.）

〒673-0433

Address:2-11-41,FUKUI MIKI-CITY HYOGO,JAPAN

E-mail:sun@kaz-corp.com

HP:http://www.kaz-corp.com/

孫　暁飛

From: wanny [mailto:sales10@car-ku.com]
Sent: Saturday, April 19, 2014 7:54 AM
To: sun
Cc: t-imai; kaz
Subject: Proforma Invoice from Carku

孙小姐,

您好！很高兴在广交会上与贵司认识, 非常感谢贵司的订单。
附件是我司的P/I,请查收。
我司在客户下单时会提供1%的备品以作售后使用。总发货数量为101台。

因本次货款金额不大，请一次性支付，分两次支付，我司要承担两次银行手续费，请谅解。因五一放假，我司交货期为5月15-20号左右。

付完款后请提供将水单传至我司。请提供贵司的货代。谢谢！有何问题，随时与我联系。谢谢！

深圳市华思旭科技有限公司
wanny
手机;0086 130 7696 5851

SHENZHEN CARKU TECHNOLOGY CO.,LTD

2nd Floor A, Block A, Tongsheng Building, Huahui Road, Dalang, Longhua New District, Shenzhen China

CARKU 卡儿酷 Tel:0086 0755 85298289-877 Fax:0086 0755 61673510

Web site: http://www.car-ku.com E-mail: sales10@car-ku.com

产品信息 Epower-21

No.	Part Name	Qty	Technique Data	Picture
1	主机	1	输入： 14V1A 输出： 5V/2A; 5V/1A; 12V10A; 19V/3.5A,12V 启动汽车,1W LED(照明,爆闪，SOS) 启动电流： 300A 峰值电流： 600A 尺寸： 230*87*28mm 重量： 615g,电池容量:18000mAh 工作温度：-20℃～60℃ 使用寿命： >1000 cycles	
2	智能电瓶夹	1	智能识别，多重防护 1. 反接保护：当接错电瓶正负极，指示灯提示连接不正确，且不会造成任何短路损坏。 2. 反充保护：当汽车启动后，可阻止汽车发电机对产品反充电。 3. 短路保护：当红黑夹对接时，不会造成产品短路 4. 过放电保护：当产品电量不足时，可停止放电，防止电池过放。 5. 强行启动：当电瓶坏死，或完全无电，可选择强行启动（按TEST键）!	
3	家用充电器	1		
4	车用充电器	1		
5	手机接头	1	IPH4，IPH5，MICRO USB	

6	笔记本接头及转接线	8+1		
7	PU包	1		
8	白盒	1	250*267*62MM	
9	纸箱	10pcs/CTN	515*340*295MM	

Item	Parameter	Picture	Laptop Brand
1	4.8*1.7mm		ASUS /HP /NEC /Delta /Compaq
2	5.0*3.0mm(with 1.0mm pin)		Samsung
3	5.5*1.7mm		Acer
4	5.5*2.1mm		IMB /HP /NEC /Toshiba
5	5.5*2.5mm		HP /IBM /DELL /Acer /Toshiba /ASUS /Compaq /Delta /LITE-ON /Fujitsu
6	6.0*4.4*4.1mm(black/yellow)		SONY /Fujitsu /Samsung
7	7.4*5.0*0.6mm		HP /DELL
8	7.9*5.5*0.9mm		IBM /Lenovo

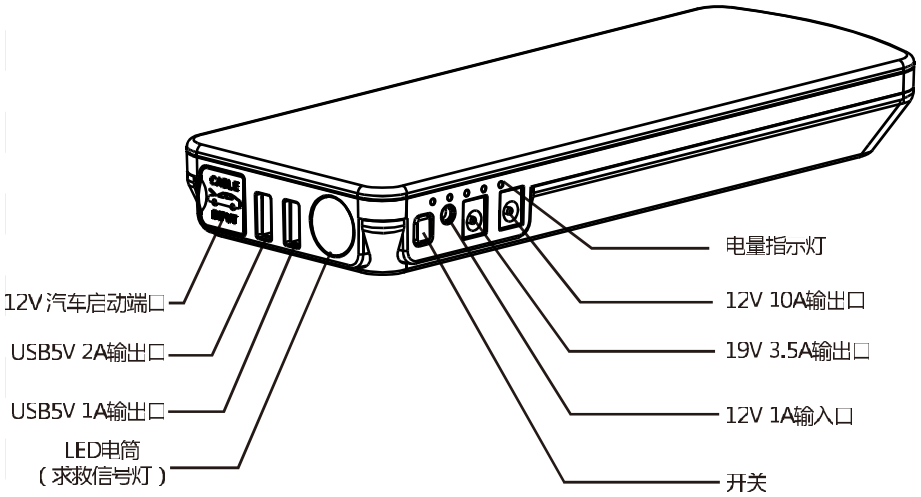
CARKU卡儿酷®

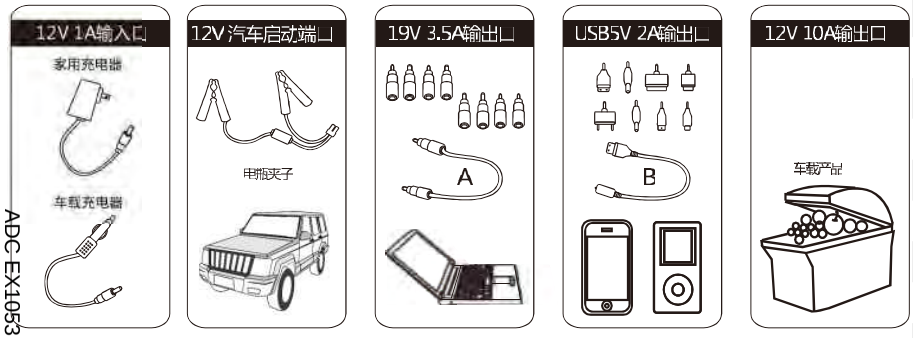
CARKU卡儿酷多功能汽车应急启动电源说明书

型号：E-Power-21

感谢您使用CARKU卡儿酷多功能汽车应急启动电源

A. 部件及功能说明：





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B. 指示灯说明:

轻触开关按键，电量指示灯指示如下：

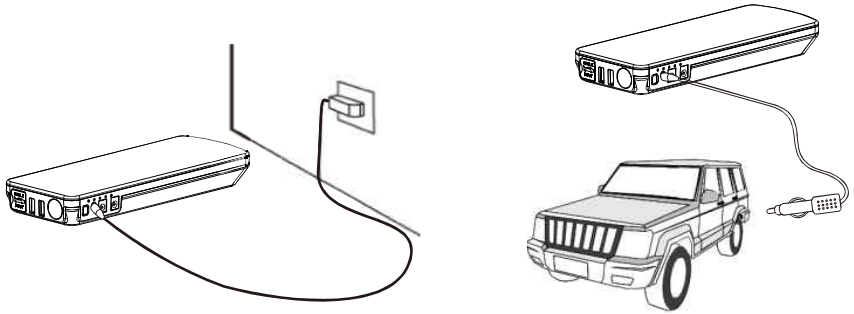
电量指示灯	不亮	全闪	亮1个	亮2个	亮3个	亮4个	亮5个
EPOWER电量	0%	10%	20%	40%	60%	80%	100%

给E-Power主机充电过程中，电量指示灯循环闪亮。长亮的指示灯数量代表产品主机的实际电量。五颗指示灯全灭，表示充电暂停/结束

C. 操作说明：

给产品主机充电

1、将配备的家用充电器插入充电插座
2、将家用充电器的插头插入E-Power主机12V输入口
或者:
1、将车载充电器的一端插入烟插
2、将车载充电器的另一端插入E-Power主机12V输入口



给12V汽油车启动

1、确认主机电量指示灯在3颗以及3颗以上
2、将红色夹子夹紧电瓶的正（+）极，黑色夹子夹紧电瓶的负（-）极
3、将电瓶线接头插入E-Power的汽车接口

4、汽车点火开关旋至启动(START)位置
5、汽车启动后，立即拔掉插头
6、取下电瓶夹夹子

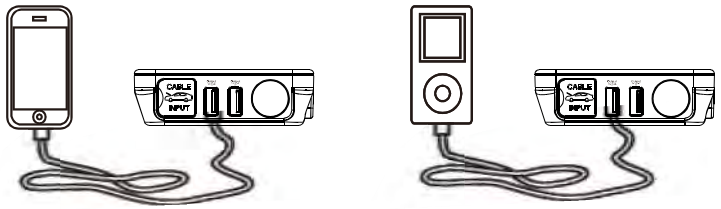


1 2 3 4 5

给手机/平板电脑等电子产品充电

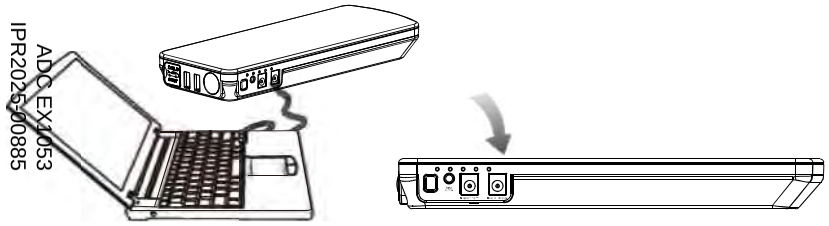
1、选择合适的充电接头连接B转接线的接口
2、将把B转接线的USB插头接入主机USB5V输出口
3、将充电接头连接手机/平板电脑等电子产品
4、轻触开关按键，开始对手机/平板电脑等电子产品充电
5、如无反应，可试着换另一USB输出口，再重试。

以给iphone\ipod充电为例



仅给19V笔记本电脑充/供电

1、选择合适的充电接头连接A转接线的任一端接口
2、将A转接线的另一端接口插入主机19V输出口
3、将充电接头连接笔记本电脑
4、轻触开关按键，开始对笔记本充电



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给12v电子产品/车载产品供电

1、将选配的转接头一端接口插入主机12V输出口
2、将12V电子产品/车载产品连接到选配的转接线的另一端接口
3、轻触开关按键，开始对车载产品充电

开关使用说明

插上充电接口后，需启动开关，在电量指示灯亮的状态下，才可以给电子产品充电

LED灯不同模式切换

长按开关按键3秒启动LED灯照明功能。随后短按开关按键，依次为：强光、爆闪、SOS、关闭

D. 配件清单：

序号	配件名称	数量	序号	配件名称	数量
1	主机	1	6	家用充电器	1
2	笔记本转接线 A	1	7	车载充电器	1
3	手机转接线 B	1	8	电瓶夹	1
4	手机接口	8	9	说明书	1
5	笔记本接口	8			

E. 技术规格：

技术规格：
尺寸： 230*87*27mm
重量： 615g
容量： 66.6Wh
输出： 5V⎓1A,5V⎓2A; 12V⎓10A; 19V⎓3.5A;12V 汽车启动端口
输入： 12V⎓1A
完全充满时间： 8小时左右
启动电流： 500A
峰值电流： 1000A
使用温度范围： -20℃ ~ 60℃

F. 常见问题：

1、问：如何关闭移动电源？
答：产品有智能检测功能，一旦没有负载，或者电子产品充电结束，移动电源会自动休眠，保存电量，以免流失。

2、问：给E-Power主机充电需要多长时间？
答：用家充或车充通过12V1A Input需要8个小时左右就可以完全充满。

3、问：E-Power能给手机充几次电？
答：取决你的手机电池的容量大小，以Iphone4为例，可以充满14次.

4、问：E-Power给手机充电需要多长时间？
答：由于采用美国进口芯片，产品输出电流能够达到2A，比手机原装充电器的充电速度快的多，大概需要一个小时左右就能将手机充饱。

5、问：E-Power能给笔记本延长使用时间几个小时？
答：根据笔记本的不同，通常4-6个小时。

6、问：E-Power能启动汽车多少次？
答：可以连续启动汽车40次左右。
.
7、问：E-Power的寿命是多长时间？
答：正常使用情况下可以用3-5年。

8、问：E-Power能存放多久？
答：E-Power电路设计很科学，不使用存放6-12个月都没问题，但为了延长使用寿命，建议每三个月充电一次。

9、问：E-Power充满电不用，存放多久还能启动汽车？
答：6-12个月。

更多常见问题请登录我司网站查询www.car-ku.com

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G. 故障排除

如果以下“操作”无法排除您的故障，请停止使用EPOWER并联系购买产品的商店或者拨打全国统一售后电话：4000-222-942(爱爱爱，就是爱）

现象	原因	操作
轻触开关按键，E-Power没有任何反应	由于E-Power电压过低，低压保护功能启动，切断电路	将充电插头插入12V输入口激活
给笔记本供电时E-Power发热	当E-Power连接笔记本的时候，以19V3.5A持续对笔记本电池充电，本身会发热	取下笔记本电池用E-Power直接供电或者暂时断开E-Power与笔记本的连接，稍后再连接继续充电

H. 产品中有毒有害物质或元素的名称及含量

产品名称	有毒有害物质或元素					
	铅（Pb）	汞（Hg）	镉（Cd）	六价鉻（Cr(Vi)	多溴联苯（PBB）	多溴二苯醚（PBDE）
多功能汽车应急启动电源	O	O	O	O	O	O

O：表示该有害物质在该部件所有均质材料中的含量均在2002/95/EC(RoHs)标准规定的限量要求以下。

I. 警告：

1、启动汽车时要把电瓶夹蓝色插头插紧、插到位，否则会影响启动效果，甚至造成接头塑胶的熔毁。
2、若给汽车无法启动，请检查电瓶夹是否夹好，电池接头是否生锈、有脏物，待清理后继续启动。若尝试3次始终无法启动，切勿强行继续启动，否则会造成对产品的损坏，应进一步检查车辆是否有其它故障。
3、请勿对夹两端电瓶夹，否则可能引起安全事故。
4、请勿自行拆解机器，否则可能引起安全事故。如果自行拆机，将不予保修。

不可在浴室等潮湿或可能接触到水的地方使用

请勿改造或拆卸电池

请注意不要让幼儿接触设备

请不要反向连接输出或输入

请勿将产品投入火中

请勿以高过等级之方式将产品充电

在充电时温度范围保持在指定的-20℃-60℃之间

请勿重击或投扔产品

充电时如有异常或故障，请联络您的经销商

如产品的液体溅入眼睛，不可搓揉眼睛，马上用清水冲洗并请示医生

在充电或存储期间，如果产品发热、变色，请马上停止使用，这可能导致液体溢漏、冒烟或燃烧

在充电时，请勿将产品放在易燃物质上（床或毛毯）

State Intellectual Property Office of The P.R.C
中华人民共和国国家知识产权局
—专利产品—

过充过放电路保护　保险丝保护　防反接插头

执行标准：GB/T 18287-2000

本产品由中国平安财产保险股份有限公司承保

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保修卡

本产品为客户提供自购买之日起___个月内的保修服务

保障条件： 需要保修服务时，请出示本保修卡，并请详尽填写相关内容。本公司向产品用户提供从产品购买之日起____个月的保质期。

保修范围：
1、在正常使用的状态下出现产品质量问题。
2、如因操作失误造成对产品的损害，不在保修范围。
3、自行拆机后，不予保修。
4、标贴撕毁的机器，不予保修。

不在保修范围内的产品，我司可提供维修服务，维修费用需由客户承担。

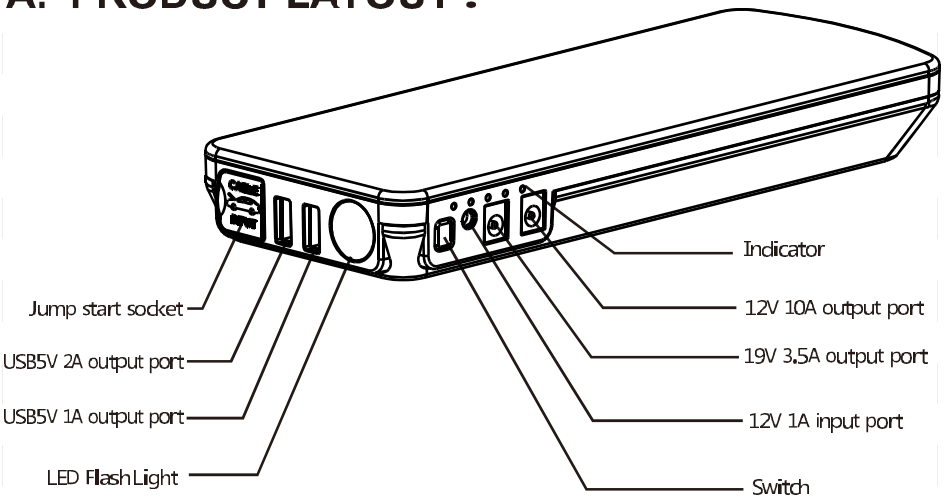
产品型号		出厂编号	
购买日期		维修日期	
客户姓名		联系电话	
客户地址			
销售单位			
产品异常现象描述			

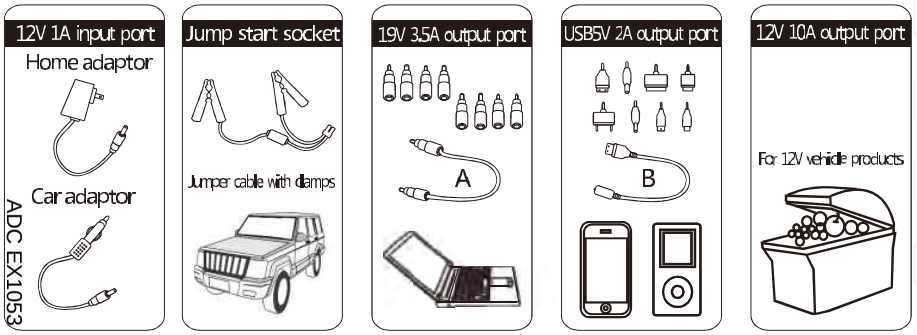
CARKU卡儿酷®

USER MANUAL

Thank you for choosing the E-Power! Always follow basic safety precautions when using electrical appliances. Read all instructions carefully, Please keep this instruction manual for easy reference

A. PRODUCT LAYOUT :





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B. OPERATION GUIDANCE

Indicator

Press the switch to check the storage level of E-Power

Indicator	Unlit	5 Flashing	1 solid	2 solid	3 solid	4 solid	5 solid
Storage level	0%	10%	20%	40%	60%	80%	100%

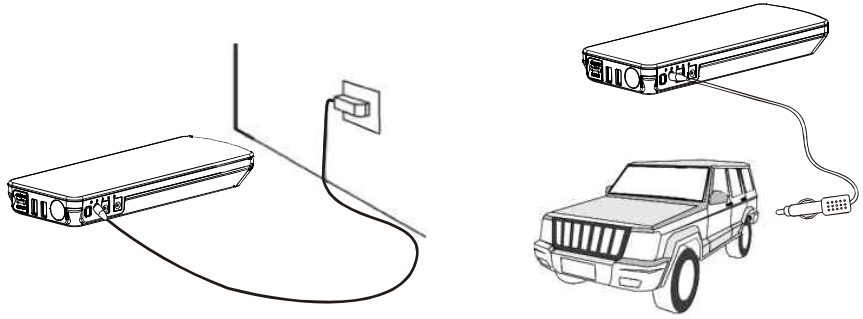
The indicator will flash one by one during the period of charging. Different number of solid indicators show different storage level of E-Power. All indicators light off when the charging is paused or completed.

E-Power Charging Instruction :

1. Plug the home adaptor into the universal socket.
2. Connect 12V 1A input port of E-Power to the other end of home adaptor .

Or

1. Plug the car adaptor into the socket of cigarette lighter.
2. Connect 12V 1A input port of E-Power to the other end of car adaptor.



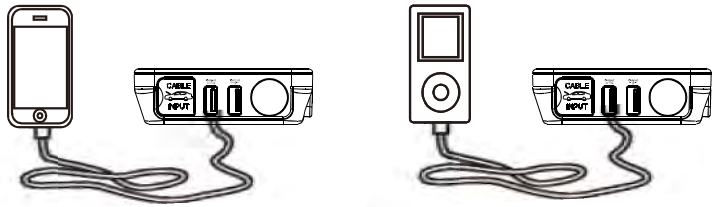
Jump start 12V gasoline vehicle Instruction:

1. Make sure that the number of indicators is not less than 3 ones.
2. Connect the RED clamp to the vehicle's battery positive (+) terminal and connect the BALCK clamp to the vehicle's battery negative (-) terminal.
3. Plug the cord of jumper cable into the jump start socket.

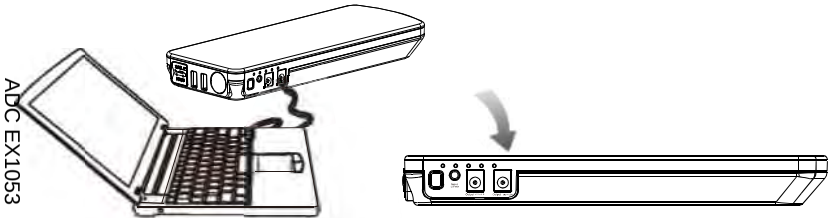
4. Start the vehicle
5. When the vehicle is started, remove jumper cable from E-Power and disconnect red and black clamps to the vehicle battery terminals.
6. Leave the vehicle's engine running



Charging Cell Phone or Tablet Instruction:
1. Plug the switch cable B to USB 5V 2A output port.
2. Select appropriate connector and connect it to your mobile phones or tablet.
3. Press the switch button to charge.
4.If doesn't work, please try another USB Output port.



Only for charging/power supply to 19V Notebook
1. Plug the switch cable A to USB 19V 3.5A output port.
2. Select appropriate connector for your Notebook and connect it to the switch cable A and your Notebook.
3. Press the switch button to charge/power supply.



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For power supply to 12V vehicle products or 12V electronics
1. Plug the optional switch cable to 12V 10A output port.
2. Connect the optional switch cable and 12V vehicle product or 12V electronics.
3. Press the switch button to power supply.

LED flash light
Press the switch 3 seconds to start the LED flash light.
There are 4 modes of LED light appear in order (normal. strobe. SOS. off) if you press slightly.

C. PARTS LIST :

#	Parts Name	Quantity	#	Parts Name	Quantity
1	Host	1	6	Home adaptor	1
2	Switch cable A	1	7	Car adaptor	1
3	Switch cable B	1	8	Jumper cable with clamps	1
4	Cell phone /tablet connectors	8	9	User Manual	1
5	Notebook connector	8			

D. TECHNICAL SPECIFICATIONS :

Size : 230*87*27mm
Weight : 615g
Battery Capacity: 66.6Wh
Output: 5V⎓1A;5V⎓2A; 12V⎓10A; 19V⎓3.5A;
Input : 12V⎓1A
Full charging time : 8 hours
Starting current : 500A
Peak current : 1000A
Operating temperature : -20℃ ~ 60℃

E. FAQ :

Q. How to turn off this appliance?
A. This appliance will power off automatically when no load or charging is complete

Q. Need how long time to full charge the E-Power?
A. Approx. 8 hours through the 12V1A input.

Q. How many times can this appliance charge for my cell phone?
A. Depend on the battery capacity of your cell phone. Take iPhone4 as an example, can full charging 14 times.

Q. How long will this appliance take to charge my cell phone full?
A. Approx. 1 hour

Q. How long will this appliance on a full charge take to supply the Notebook?
A. 4-6 hours

Q. How many times can this appliance jump start the vehicle if it is in full battery?
A. Approx. 40 times.

Q. What's the lifetime of E-Power?
A. Usually 3-5years in normal condition.

Q. How long does the battery last after fully charged?
A. 6-12 months, however, we suggest to recharge it every 3 months.

Q. How long does the battery last still can jump start the car after fully charged?
A. 6-12 months

F. TROUBLE SHOOTING:

Finding	Cause	Remedies
No response when pressing the switch button.	Low voltage protection of E-Power is started.	Plug the adaptor into the 12V 1A input port to activate.
E-Power is a bit hot when charging for Notebook.	The charging current is a bit high (3.5A)	Remove the battery of your Notebook and use this appliance to supply power directly, or disconnect E-Power with your Notebook and connect them when it is cool.

G. TOXIC AND HARMFUL SUBSTANCES:

Composition and amount of toxic and harmful substances in E-Power					
Pb	Hg	Cd	Cr(Vi)	PBB	PBDE
O	O	O	O	O	O

O: Indicate all homogeneous materials' hazardous substances content are below the MCV limit specified in the Standard 2002/95/EC(RoHs).

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H. Warning:

1. Always make sure the blue plug of jumper cable connect with the jump start socket tight in E-Power before jumping start the vehicle. Otherwise, it will affect the results, even causing the melt of the blue plug.
2. Always check if the jumper clamps are well connected, check if the vehicle battery connector is rusted or dirty, clean it before jumping start the vehicle. DO NOT jump start again after 3 attempts. Otherwise, it will damage the host. And Check your vehicle if it has other trouble.
3. DO NOT connect the two clamps. Otherwise, it may be dangerous!
4. DO NOT disassemble the host. Otherwise, it may be dangerous!

- Always take care when using the appliance
- This appliance is not intended for use by young or infirm persons without supervision
- Do not use as a toy
- Do not allow the appliance to become wet
- Do not immerse the appliance in water
- Do not operate the appliance in explosive atmospheres, such as in the presence of flammable liquids, gases or dust
- Do not modify or disassemble E-Power. Only a repair technician may repair this unit
- Do not expose the appliance to heat
- Do not store in locations where the temperature may exceed 70 °C
- Charge only at ambient temperatures between -20 °C and 60 °C
- Charge only using the charger provided with the appliance
- Under extreme conditions, battery leakage may occur. Carefully wipe the liquid off using a cloth and avoid skin contact when you notice liquid on the batteries. In case of skin or eye contact, rinse immediately with clean water and seek medical attention
- At the end of their useful life, discard the appliance with due care for our environment

I. WARRANTY INFORMATION:

1.We offer a limited warranty for this product against any defects in material and workmanship for a period of 6 months from the date of purchase by the end user/consumer. The conditions of the warranty are as follows:

2.The warranty is only valid upon presentation of the original receipt (from dealer/retailer) by the original purchaser with the product to be repaired or replaced

3.The warranty is void if the serial number, date of purchase and label has been removed

4.The warranty does not cover damage or product failure resulting from normal wear and tear, physical abuse, improper installation, misuse, modification or repairs by unauthorized third parties

5.We do not assume responsibility for any loss or damage incurred during shipment or as a result of a force majeure

6.We are not liable for any incidental or consequential damages arising from the use or misuse of this product

7.All warranty claims are limited to repair or replacement of the defective product and at the sole discretion of us

8.If we repair or replace the product, the product will be covered for the remaining time of the original warranty period. Repair or replacement may involve the use of reconditioned units which are equivalent in function. Replaced part or product becomes the property of us

9.Consumable components such as batteries are not covered by the warranty



Overcharge and Overdischarge Protection



Fuse Protection



Against-reverse Plug

Applied Standard : GB/T 18287-2000



Exhibit H

From: wanny <sales10@car-ku.com>
Sent: Wednesday, April 23, 2014 11:24 PM
To: Giuseppe Orfanò
Subject: E-catalogue from Carku
Attachments: Carku catalogue.ppt

Dear Giuseppe,
Enclosed pls check our E-catalogue for you.Pls review all of the models, Carku jump starters are with best quality, the designs are followed by other factories.We hope to get more inquiry from you.
Any question about the product, pls send me reply.
Best wishes

Wanny
Foreign Sales Department Manager
CARKU™ 卡儿酷
Shenzhen Carku Technology Co.,Ltd
ADD: 2 Floor, Block A, Tongsheng Technology Building,Huahui Road,Dalang, Longhua New District, Shenzhen China 518109
Tel: 86-0755-85298289-877
Fax: 86-0755-61673510
Mobile: 0086-13076965851
0086-13714962190
QQ: 2769424685
Skype: carku15
Skype: yifengwan
Mail: sales10@car-ku.com
Website: http://www.car-ku.com

From: Giuseppe Orfanò
Date: 2014-04-23 23:07
To: sales10@car-ku.com
Subject: request sample E-POWER-21

Dear Wanny,

it was a pleasure to meet you at the show. We would like to study better your slim jump starter (E-Power-21) and order a sample for our testing. Cause high transport costs out of Switzerland would it be possible that you make local the request (Fedex/UPS or whatever) and include in the PI also the cost for the transport?

I remain at your fully disposal for every question

Best Regards – Cordiali saluti – Freundliche Grüsse – Cordialement

Giuseppe Orfanò
Leiter Market-Management

KRAUTLI (Schweiz) AG
Badenerstrasse 41 • PF 160 • 8104 Weiningen ZH
Tel. +41 (0)44 439 66 25 • Fax +41 (0)44 439 66 30
g.orfano@krautli.ch • www.krautli.ch
MSN: giuseppe80@hotmail.ch • Skype: giuseppe.orf-1



EyeSystem



CARKU卡儿酷®

Model： EPOWER-Elite



TECHNICAL SPECIFICATION：
Input： 14V1A
Output： 12V/10A ; 5V/2A; 19V/3.5A 12V Jump start LED light (light, burst flashing, SOS)
Start Current： 200A
Peak Current： 400A
Size： 160*75*28mm
Weight： 420g Battery capacity:12000mAh
Operating Temp.：-20℃～60℃/-4℉～140℉
Lifetime： >1000 cycles

ACCESSORIES：	
Home charger*1	Jumper Cable*1
Car charger*1	3 Mobile connectors*1 (Micro, iP4, iP5)
Laptop connectors*8+swtich cable*1	





Packing: Color Box + PU bag

FEATURES：

1. Powerful capability for jump Start 12V vehicle.
2. Supply power for 19V laptop.
3. Supply power for Mobile, Tablet PC, MP3/MP4, PSP, Camera and other digital devices.
4. Supply power for car refrigerator, blast pump, and other 12V devices.
5. LED light (light, burst flashing, SOS)

ADC EX1053
IPR2025-00885

CARKU卡儿酷®

Model： EPOWER-Standard



TECHNICAL SPECIFICATION：
Input： 14V1A
Output： 12V/10A ; 5V/2A 12V Jump start LED light (light, burst flashing, SOS)
Start Current： 200A
Peak Current： 400A
Size： 160*75*28mm
Weight： 350g Battery capacity:10000mAh
Operating Temp.：-20℃~60℃/-4℉~140℉
Lifetime： >1000 cycles

ACCESSORIES：	
Home charger*1	Jumper Cable*1
Car charger*1	3 mobile connectors*1





Packing: Color Box + PE tray

FEATURES：

1. Powerful capability for jump Start 12V vehicle.
2. Supply power for Mobile, Tablet PC, MP3/MP4, PSP, Camera and other digital devices.
3. Supply power for car refrigerator, blast pump, and other 12V devices.
4. LED light (light, burst flashing, SOS)

CARKU卡儿酷®

Model： EPOWER-3



TECHNICAL SPECIFICATION：
Input： 14V1A
Output： 5V/2A; 12V Jump start LED light (light, burst flashing, SOS)
Start Current： 200A
Peak Current： 400A
Size： 131*75*24mm
Weight： 300g,Battery capacity:8000mAh
Operating Temp.：-20℃～60℃/-4℉～140℉
Lifetime： >1000 cycles

ACCESSORIES：	
Home charger*1	Jumper Cable*1
Car charger*1	3 mobile connectors*1





Packing: Color Box + PE tray

FEATURES：

1. Powerful capability for jump Start 12V vehicle.
2. Supply power for Mobile, Tablet PC, MP3/MP4, PSP, Camera and other digital devices.
3. LED light(light, burst flashing, SOS)

CARKU卡儿酷®

Model： EPOWER-05





TECHNICAL SPECIFICATION：

Input： 14V1A
Output： 5V/2A; 19V/3.5A 12V Jump start LED light (light, burst flashing, SOS)
Start Current： 200A
Peak Current： 400A
Size： 150*80*33mm
Weight： 450g,Battery capacity:12000mAh
Operating Temp.：-20℃～60℃/-4℉～140℉
Lifetime： >1000 cycles

ACCESSORIES：

Home charger*1	Jumper Cable*1
Car charger*1	3 mobile connectors*1 (Micro, iP4, iP5)
Laptop connectors*8+swtich cable*1	





Packing: Color Box + bag

FEATURES：

1. Powerful capability for jump Start 12V vehicle.
2. Supply power for 19V laptop.
3. Supply power for Mobile, Tablet PC, MP3/MP4, PSP, Camera and other digital devices.
4. LED light (light, burst flashing, SOS)

ADC EX1053
IPR2025-00885

CARKU卡儿酷®

Model： EPOWER-10

The slimmest jump starter



TECHNICAL SPECIFICATION：
Input： 14V1A; Micro USB5V/2A
Output： 5V/2A; 12V Jump start LED light (light, burst flashing, SOS)
Start Current： 150A
Peak Current： 300A
Size： 139*75*15mm
Weight： 200g,Battery capacity:6000mAh
Operating Temp.：-20℃～60℃/-4℉～140℉
Lifetime： >1000 cycles

ACCESSORIES：	
Home charger*1	Jumper Cable*1
Car charger*1	3 mobile connectors*1





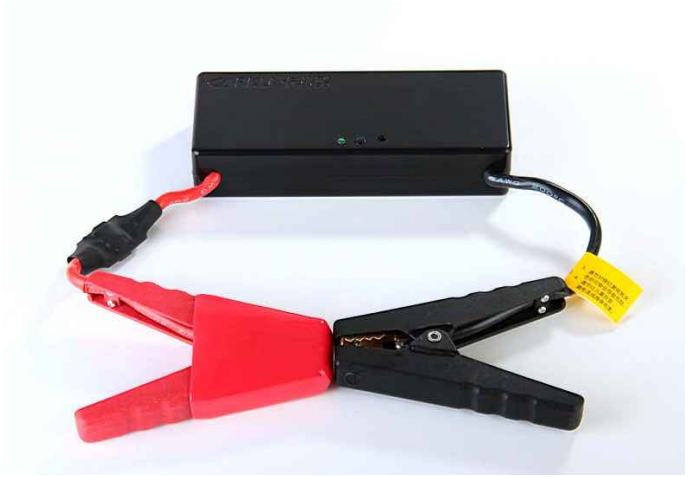
Packing: Color Box + EVA tray

FEATURES：

1. Powerful capability for jump Start 12V vehicle.
2. Supply power for Mobile, Tablet PC, MP3/MP4, PSP, Camera and other digital devices.
3. LED light(light, burst flashing, SOS)

CARKU卡儿酷®

Model： Electronic Scorpion



TECHNICAL SPECIFICATION：
Input： 14V1A
Output： 12V Jump start
Start Current： 300A
Peak Current： 600A
Size： 180*70*35mm
Weight： 690g,Battery capacity:13000mAh
Operating Temp.：-20℃～60℃/-4℉～140℉
Lifetime： >1000 cycles

ACCESSORIES：
Home charger*1





Packing: Color Box + PE tray

FEATURES：
Powerful capability for jump Start 12V vehicle

CARKU卡儿酷®

Model： 12V/24V Jump Starter



TECHNICAL SPECIFICATION：
Input： 14V1A
Output： 12V Jump start; 24V Jump start
Start Current： 500A(12V)/300A(24V)
Peak Current： 1000A(12V)/500A(24V)
Size： 247*216*64mm
Weight： 1500g,Battery capacity:24000mAh
Operating Temp.：-20℃～60℃/-4℉～140℉
Lifetime： >1000 cycles

ACCESSORIES：
Home charger*1



Packing: Color Box + PE tray

FEATURES：

Powerful capability for jump Start 12V vehicle and 24V vehicle
Recognize the positive and negative poles intelligently
Anti-recharge protection.
Short circuit protection.

CARKU卡儿酷®

Model： E-Power-20



TECHNICAL SPECIFICATION：
Input： 14V1A
Output： 5V/2A; 5V/1A; 19V/3.5A 12V Jump start LED light (light, burst flashing, SOS)
Start Current： 200A
Peak Current： 400A
Size： 155*74*31.5mm
Weight： 400g,Battery capacity:10000mAh
Operating Temp.：-20℃～60℃
Lifetime： >1000 cycles

ACCESSORIES：	
Home charger*1	Intelligent Jumper Cable*1
Car charger*1	3 mobile connectors*1 (Micro, iP4, iP5)
Laptop connectors*8+swtich cable*1	





Packing: Color Box + PU bag

FEATURES：

1. Powerful capability for jump Start 12V vehicle.
2. Supply power for 19V laptop.
3. Supply power for Mobile, Tablet PC, MP3/MP4, PSP, Camera and other digital devices.
4. LED light (light, burst flashing, SOS)

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Model： E-Power-20B



TECHNICAL SPECIFICATION：
Input： 14V1A
Output： 5V/2A; 5V/1A; 15V10A (Car fast charge) LED light (light, burst flashing, SOS)
Size： 155*75*31mm
Weight： 325g,Battery capacity:7500mAh
Operating Temp.：0℃～60℃
Lifetime： >1000 cycles

ACCESSORIES：	
Home charger*1	Car charger*1



Packing: Color Box + PE tray

FEATURES：

1. Emergency start the vehicle, fast charge vehicle battery from Cigar socket.
2. Supply power for Mobile, Tablet PC, MP3/MP4, PSP, Camera and other digital devices
3. LED light (light, burst flashing, SOS)

CARKU卡儿酷®

Model： E-Power-21



TECHNICAL SPECIFICATION：
Input： 14V1A
Output： 5V/2A; 5V/1A; 12V10A; 19V/3.5A 12V Jump start LED light (light, burst flashing, SOS)
Start Current： 300A
Peak Current： 600A
Size： 230*87*28mm
Weight： 615g,Battery capacity:18000mAh
Operating Temp.：-20℃～60℃
Lifetime： >1000 cycles

ACCESSORIES：	
Home charger*1	Intelligent Jumper Cable*1
Car charger*1	3 mobile connectors*1 (Micro, iP4, iP5)
Laptop connectors*8+swtich cable*1	



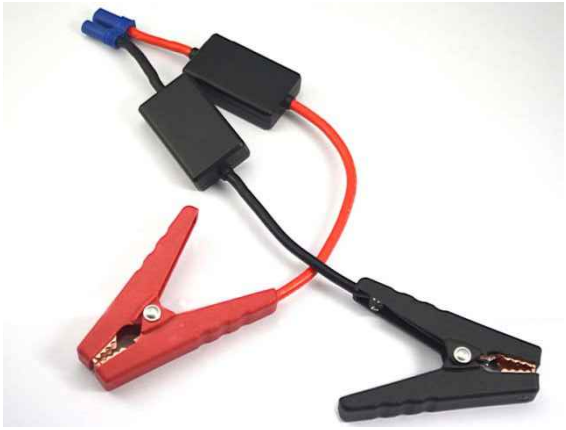
Packing: Color Box + PU bag

FEATURES：

1. Powerful capability for jump Start 12V vehicle.
2. Supply power for 19V laptop.
3. Supply power for Mobile, Tablet PC, MP3/MP4, PSP, Camera and other digital devices.
4. Supply power for car refrigerator, blast pump, and other 12V devices.
5. LED light (light, burst flashing, SOS)

CARKU卡儿酷®

Jumper Cable



FEATURES :

1.Reverse Charge Protection.

2.Short-Circuit Protection.

Intelligent Jumper Cable



FEATURES :

1.Reverse Polarity Protection: No short-circuit damage is possible even when the clamps are connected incorrectly between positive (+) and negative (-) terminals.

2.Reverse Charge Protection: No reverse charge back to our products after the vehicle starts.

3.Short-Circuit Protection: No short circuit occurs in the product when the two Clamps are connected.

4.Overload Protection: Stop the product from over discharging, protecting the battery when it reaches a low level.

5.Starting override: While the vehicle battery is completely dead or no battery is present, Push “Test” button to force- start the vehicle.

Exhibit I

From: LEON_CARKU

Date: 2014-04-27 23:17

To: andrew

Subject: Re: from Ukraine

Hi Andrew

I checked all the video.

For the motor bikes, I suppose that not the power of the EPOWERS, but maybe the connected area of the clamps to battery is not enough, so the resistance is big if the connected are small.

How big the engines on your videos? the motors bikes and the gig vehicle (the one may is VEPR)

Regarding the CMP-07, at current this model we only can provide the test sample, for it is the private model of a customer, so we can not supply batch order until we have get the approval from this customer. Most important, we fund it still need to improve at some where.

So for the 12V diesel vehicles, I hot recommend a new powerful model, EPOWER-21.

You can check from the enclosed information, this one is 18000mAh capacity, it is powerful, even for diesel vehicles.

And it is with a intelligent jumper cable

Best regards

Leon

From: andrew

Date: 2014-04-25 04:48

To: sales02

Subject: from Ukraine

Dear Leon.

Sorry for so late replay,
was in a biz trip. Now, we have difficult situations in our country ,
so need to work with many things.

Despite the force majeure we continue to work with our Project CarKu.
Its a pity that I could not visit Canton this time, but cannot leave our Ukraine office now.
Hope in short time we have stable situation and can going on in full force.

For now have several questions:
1. Please check and send all acceptable color for all model which you have on stock now.
Small order can discuss tomorrow and order for quick air shipment.

2. Do you have this new box for CMP. Can send for us with this pack?

3. Could you give us know if you have GTIN codes. If yes, can send or print on boxes?

4. Here link for some video, can see.. http://yadi.sk/d/SEEEtjOyNB5gJ

Some items was checked a lots of cars and moto, and we had some difficulties:
- with moto Harley-Davidson 1.2cbm - only CMP can start engine, Elite cannot.
- Diesel BMW 3.0 cbm - it was to hard to start engine with Elite, but it started. Almost empty battery in Elite device after one start.
- Diesel Ukrainian all road car "VEPR" https://www.youtube.com/watch?v=HHWYDJhEdLY only CPM-07 started .
- When we had outside temperature (minus 10)-10C , we test all devices on Skoda Fabia 1.2 , cold engine. Only CMP and Scorpion have started engine.

Can you give us some comments for it..

Waiting for your prompt reply.

Best Regards,
ANDREW POLONSKY.

Group of companies "AMGROUP",
"AMTORG LLC"
54, Tupoleva str., Kiev
03680 Ukraine
tel.: +380 44 361 05 71
tel./fax.: +380 44 498 17 51
mob.: +380 67 891 81 91
Skype: Andrew_Polonsky
e-mail: andrew@amtorg.com.ua

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Model : E-Power-21



TECHNICAL SPECIFICATION :

Input : 14V1A
Output : 5V/2A; 5V/1A; 12V10A; 19V/3.5A 12V Jump start LED light (light, burst flashing, SOS)
Start Current : 300A
Peak Current : 600A
Size : 230*87*28mm
Weight : 400g
Operating Temp. : -20℃~60℃
Lifetime : >1000 cycles

ACCESSORIES :

Home charger*1	Intelligent Jumper Cable*1
Car charger*1	3 mobile connectors*1 (Micro, iP4, iP5)
Laptop connectors*8+swtich cable*1	



Packing: Color Box + PU bag

FEATURES :

1. Powerful capability for jump Start 12V vehicle.
2. Supply power for 19V laptop.
3. Supply power for Mobile, Tablet PC, MP3/MP4, PSP, Camera and other digital devices.
4. Supply power for car refrigerator, blast pump, and other 12V devices.
5. LED light (light, burst flashing, SOS)

CARKU卡儿酷®

Jumper Cable



FEATURES :

1. **Reverse Charge Protection.**
2. **Short-Circuit Protection.**

Intelligent Jumper Cable



FEATURES :

1. **Reverse Polarity Protection**: No short-circuit damage is possible even when the clamps are connected incorrectly between positive (+) and negative (-) terminals.
2. **Reverse Charge Protection**: No reverse charge back to our products after the vehicle starts.
3. **Short-Circuit Protection**: No short circuit occurs in the product when the two Clamps are connected.
4. **Overload Protection**: Stop the product from over discharging, protecting the battery when it reaches a low level.
5. **Starting override**: While the vehicle battery is completely dead or no battery is present, Push “Test” button to force- start the vehicle.

Exhibit J

From: wanny <sales10@car-ku.com>

Sent: Sunday, December 22, 2013 4:54 AM

To: j@no.co

Subject: Re:Fw:Lithium JumpCharge

Attachments: Catalogue.pdf

Dear Jonathan ,

Thank you for your inquiry.

Shenzhen Carku Technolog Co.,Ltd is a professional manufacturer of jump starter, with design patent certificate. Carku also have got CE, ROHS, FCC certificate for exportation.

Enclosed pls find our catalogue for your reference, some of hot models are included. We'd like to supply you a sample to test, the model is Epower-01-elite, the sample price is 60$, with shipping cost to America 35$, the total is 95$.

About your requirement of quotation for order 10,000, 25,000, 50,000, 100,000 unit, we'd like to get more information about the order. If you order 10,000 units at 1 time, you will get a favorabe price than you order them in a year.The quotattion can be sent to you after you test our jump starter.

Pls supply your design ID, as the tooling cost is different, we need the design ID to estimate the cost.

Welcome to visit our company if you come to China.

Looking forward to your reply.

Best wishes
Wanny

Bank information for you:

HK Bank Details of CARKU TECHNOLOGY CO LIMITED:

Beneficiary Bank Name: HSBC

Bank Code: 004

Bank Account no.: 801 229196 838

Beneficiary Bank Address: 1 Queen’s Road Central, Hong Kong

SWIFT Code: HSBCHKHHHKH

----- Original Message -----
From:"Jonathan Nook" <j@no.co>
To: "infocarku@car-ku.com" <infocarku@car-ku.com>
Cc:
Sent:Sat Dec 21 2013 03:48:35 GMT+0800 (中国标准时间)
Subject: Lithium JumpCharge

Hi Carku:

My sourcing team provided me with your website. We are looking for a lithium-ion jump starter. Your multifunction jump starter is similar to what we are looking for. We would like to get a quotation and samples as soon as possible. We would also require our own design ID, which we would provide. Please provide a quotation on 10,000, 25,000, 50,000 and 100,000 units at a time. Include freight terms, payment terms and estimated tooling costs.

Thank you. Jonathan

Jonathan Lewis Nook, MBA | CVO, President
The NOCO Company Since 1914
HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA
[Phone] 216.464.8131 x207 [Email] j@no.co<mailto:j@no.co> [Skype] jonathannook
no.co<http://no.co>

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Hi Carku:

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Thank you. Jonathan

Jonathan Lewis Nook, MBA | CVO, President

The NOCO Company Since 1914

HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA

[Phone] 216.464.8131 x207 [Email] j@no.co [Skype] jonathannook

no.co

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CARKU卡儿酷®

WELCOME TO CARKU

CAR POWER WORLD

深圳市华思旭科技有限公司

SHENZHEN CARKU TECHNOLOGY CO.,LTD.

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Our R&D Team

Teamwork is at the core of our company



Haomin Chen
M.Sci. of Electronic and information Engineering (Summa Cum Laud) at Tianjin University Selected for Chinese Government' s" 863" (Advanced Technology Innovation)Program.



Zhifeng Zhang
M.Sci. of Electrochemical Engineering at Hongkong University of Science and Technology.
Primarily engaged in research and development to improve battery performance

Jinhao Gao
Ph.D of nanochemistry at HongKong University of Science and Technology.
Post-doctoral research at Stanford University

Focusing on research in Electrochemical and solid materials, specializing improving battery performance.





Cao Huang
Ph.D from China University of Science and Technology

Concentrating in electronic circuit research, specializing in intelligent software control systems.



Lei Zheng
B.Sci. of Chemistry and Molecular Engineering at Beijing University
Ph.D Department of Mechanical Engineering, university of Leeds
NACE Member, PE Member

Extensive development experience in electrochemistry, participated in several international projects in both development and management roles, with many years of experience in project

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Patent certificates



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Products certificates















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- -Custom Molding
- -Custom Branding



Strategic Partners

CARKU卡儿酷 / 05

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Our Product Line

Model:E-Power-Elite

TECHNICAL SPECIFICATIONS:

Capacity:12000mAh
Input: 12V/1A
Output: 12V/10A;5V/2A;19V/3.5A
12V Jump start
LED light(lingt,burst flash & SOS)

Starting Current: 200A
Peak Current: 400A
Size:160×75×28 mm
Weight:420g
Operating Temp.:-20℃~60℃/-4°F~140°F
Lifetime:>1000 cycles





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Model:E-Power-Standard

TECHNICAL SPECIFICATIONS:

Capacity:10000mAh
Input: 12V/1A
Output: 12V/10A;5V/2A
12V Jump start
LED light(lingt,burst flash & SOS)

Starting Current: 200A
Peak Current: 400A
Size:160×75×28 mm
Weight:350g
Operating Temp.:-20℃~60℃/-4°F~140°F
Lifetime:>1000 cycles





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NEW ARRIVALS

Model:E-Power-02





Multi-Function Jump Starter

TECHNICAL SPECIFICATIONS:

Capacity:8000mAh
Input: 12V/1A
Output: 5V/2A
12V Jump start
LED light(lingt,burst flash & SOS)

Starting Current: 200A
Peak Current: 400A
Size:128×73×25 mm
Weight:300g
Operating Temp.:-20℃~60℃/-4°F~140°F
Lifetime:>1000 cycles

E-Power-03



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E-Scorpion

TECHNICAL SPECIFICATIONS:

Capacity:13000mAh
Input: 12V/1A
Output: 12V Jump start
Starting Current: 300A
Peak Current: 600A
Size:180×70×36 mm
Weight:690g
Operating Temp.:-20℃~60℃/-4°F~140°F
Lifetime:>500 cycles





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12V/24V Jump Starter

TECHNICAL SPECIFICATIONS:

Input : 12V 1A
Output : 12V Jump start; 24V Jump start
Start Current : 500A(12V)/300A(24V)
Peak Current : 1000A(12V)/500A(24V)
Size : 247×216×64mm
Weight : 1500g
Operating Temp. : -20℃~60℃/-4℉~140℉
Lifetime : >1000 cycles





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ADC EX1053
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E-Power -10

The Slimmest Jump Starter

Product parameters:

Size : 139x75x15mm

Weight : 200g

Battery Capacity: 22.2 Wh

Output: **12V Jump start,** 5V ⎓ 2A;

Input : 12V ⎓ 1A ;5V ⎓ 2A;

Full charging time : 2 hours

Starting current : 150A

Peak current : 300A

Operating temperature : -20℃ ~ 60℃





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Easy Jump

New

Time required: 5 minutes
12V Auto Jump Starter
5V output
80×150×20mm
300g

Allows safe starting from inside the vehicle!



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Exhibit K

From: wanny <sales10@car-ku.com>
Sent: Monday, December 23, 2013 6:14 AM
To: Jonathan Nook
Subject: Re: Re: Lithium JumpCharge
Attachments: Quotation from Carku.pdf

Dear Jon,

It's glad to talk with you. Welcome to visit our company in next Feb.

Enclosed pls find our quotation for your reference. The price term is FOB SHENZHEN.Any question about the price, pls let me know.

Best wishes

---

wanny

From: Jonathan Nook
Date: 2013-12-22 23:09
To: wanny
Subject: Re: Lithium JumpCharge

Hi Wanny:

Thanks for the quick reply. Please send us a firm quotation before sending samples. I do not want to waste my engineers time, if the price is not competitive. We are evaluating several products now.

As for volume, obviously our orders would be small to start since this is a new relationship, but we typically purchase 5,000 to 10,000 in order to minimize costs (gift box, ect).

As for the samples, please resend invoice with two samples and we can wire funds.

-Jon

Jonathan Nook, MBA
The Noco Company
CVO, President
Email: j@no.co
Mobile: +1.216.526.3222
Office: +1.216.464.8131
Skype: jonathannook

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On Dec 22, 2013, at 4:55 AM, "wanny" <sales10@car-ku.com> wrote:

Dear Jonathan ,

Thank you for your inquiry.

Shenzhen Carku Technolog Co.,Ltd is a professional manufacturer of jump starter, with design patent certificate. Carku also have got CE, ROHS, FCC certificate for exportation.

Enclosed pls find our catalogue for your reference, some of hot models are included. We'd like to supply you a sample to test, the model is Epower-01-elite, the sample price is 60$, with shipping cost to America 35$, the total is 95$.

About your requirement of quotation for order 10,000, 25,000, 50,000, 100,000 unit, we'd like to get more information about the order. If you order 10,000 units at 1 time, you will get a favorabe price than you order them in a year.The quotattion can be sent to you after you test our jump starter.

Pls supply your design ID, as the tooling cost is different, we need the design ID to estimate the cost.

Welcome to visit our company if you come to China.

Looking forward to your reply.

Best wishes
Wanny

Bank information for you:

HK Bank Details of CARKU TECHNOLOGY CO LIMITED:
Beneficiary Bank Name: HSBC
Bank Code: 004
Bank Account no.: 801 229196 838
Beneficiary Bank Address: 1 Queen’ s Road Central, Hong Kong
SWIFT Code: HSBCHKHHHKH

> ----- Original Message -----
> From:"Jonathan Nook" <j@no.co>
> To: "infocarku@car-ku.com" <infocarku@car-ku.com>
> Cc:
> Sent:Sat Dec 21 2013 03:48:35 GMT+0800 (中国标准时间)
> Subject: Lithium JumpCharge
> Hi Carku:
>
> My sourcing team provided me with your website. We are looking for a lithium-ion jump starter. Your multifunction jump starter is similar to what we are looking for. We would like to

get a quotation and samples as soon as possible. We would also require our own design ID, which we would provide. Please provide a quotation on 10,000, 25,000, 50,000 and 100,000 units at a time. Include freight terms, payment terms and estimated tooling costs.

Thank you. Jonathan

Jonathan Lewis Nook, MBA | CVO, President
The NOCO Company Since 1914
HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA
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Hi Carku:

My sourcing team provided me with your website. We are looking for a lithium-ion jump starter. Your multifunction jump starter is similar to what we are looking for. We would like to get a quotation and samples as soon as possible. We would also require our own design ID, which we would provide. Please provide a quotation on 10,000, 25,000, 50,000 and 100,000 units at a time. Include freight terms, payment terms and estimated tooling costs.

Thank you. Jonathan

Jonathan Lewis Nook, MBA | CVO, President
The NOCO Company Since 1914
HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA
[Phone] 216.464.8131 x207 [Email] j@no.co [Skype] jonathannook
no.co

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<Catalogue.pdf>

SHENZHEN CARKU TECHNOLOGY CO.,LTD

2nd Floor A, Block A, Tongsheng Building, Huahui Road, Dalang, Longhua New District, Shenzhen China

CARKU 卡儿酷 Tel:0086 0755 85298289-877 Fax:0086 0755 61673510

Web site: http://www.car-ku.com E-mail: sales10@car-ku.com

Quotation

To:The Noco Company No.:2013122302

Attn:Mr. Jonathan Nook, +1.216.526.3222 Date: 2013-12-23

NO	Model	Description of goods	Function	Price($)/ 5,000pcs	Price($)/ 10,000pcs	Picture	Packing information
1	Epower-01-elite	Multi-function jump starter	1. Jump Start 12V vehicle 2. Supply for laptop 3. Charge/supply for mobile phone 4. Supply for automotive equipment 5. LED lighting Battery capacity:12000mAh	47.0	46.5		 10pcs/CTN size:393*320*280mm
2	Epower-02	Multi-function jump starter	1. Jump Start 12V vehicle 2. Charge/supply for mobile phone 3. LED lighting Battery capacity:8000mAh	37.8	37.1		 10pcs/CTN size:393*320*280mm
3	Epower-05	Multi-function jump starter	1. Jump Start 12V vehicle 2. Supply for laptop 3. Charge/supply for mobile phone 4. LED lighting Battery capacity:12000mAh	50.0	49.5	 	 10pcs/CTN size:393*320*280mm

1.Price term: USD, FOB SHENZHEN，**home adaptor for American market with UL certificate**

2. Delivery time: within 20-25days after sample confirmed and receiving deposit.

3.Payment term: 30% prepaid as deposit, pay the balance within 7days before shipping date.

4.Quotation valid time: 90days.

5. Jump starters with mobile connectors sent to American without Iphone-5 connectors

Bank information:

Benificial: SHENZHEN CARKU TECHNOLOGY CO.,LTD

Bank name:Agricultural Bank of China Shenzhen Baoan Sub-Branch

Bank address: NO.50 1st Jian an Road Baoan District Shenzhen China

Account No.: 410 217 000 400 585 47

SWIFT CODE: ABOCCNBJ410

SHENZHEN CARKU TECHNOLOGY CO.,LTD

Wanny

2013-12-23

Exhibit L

From: wanny <sales10@car-ku.com>

Sent: Friday, January 10, 2014 10:06 PM

To: Linda.Szymanski@no.co

Cc: r@no.co; "j"

Subject: Tracking No. for the package

Dear Linda,

The tracking No. is 803484694277 by Fedex. Pls check it.

Best wishes

Wanny

Foreign Sales Department Manager

Shenzhen Carku Technology Co.,Ltd

ADD: 2 Floor, Block A, Tongsheng Technology Building,Huahui Road,Dalang, Longhua New District, Shenzhen China 518109

Tel: 86-0755-85298289-877

Fax: 86-0755-61673510

Mobile: 0086-13076965851

0086-13714962190

QQ: 2769424685

Skype: carku15

Skype: yifengwan

Mail: sales10@car-ku.com

Website: http://www.car-ku.com

From: wanny <sales10@car-ku.com>
Sent: Thursday, January 9, 2014 4:48 AM
To: Linda Szymanski
Cc: Rick Stanfield; Jonathan Nook
Subject: Re: FW: Wire Confirmation

Dear Linda,

Thank you for your information. We have received the payment today, and samples will be sent to you tomorrow.

Carku jump starter is the first brand in China, we do our best to promote Carku brand in the market.So if customers buy Carku brand jump starter and would be Carku Agent, there are some rewards, Carku won't sell any products to other customers in the area where there is a Carku agent.

You'll get 2samples that is Carku brand with English and Chinese version together. Carku brand Jump Starter Epower-01-elite has Iphone-5 mobile phone connector for free. After the successful test, you place the order with your own logo, you'll pay if you want Iphone-05 mobile phone connector. Pls note it.

The tracking No. will be sent to you after the delivery.

Best wishes

wanny

From: Linda Szymanski
Date: 2014-01-09 05:03
To: sales10@car-ku.com
CC: Rick Stanfield
Subject: FW: Wire Confirmation

Dear Wanny,

Please see confirmation of payment. Please send samples to our R&D location at the below address:

The Noco Company R&D Division
6802 W. Banff Lane
Peoria, AZ 85381
Attn: R. Stanfield

Use 216-464-8131 X 203 as telephone number

Best regards,

Linda Szymanski, Procurement and Inventory Manager
The NOCO Company Since 1914
HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA
[Phone] 216.464.8131 x203 [Mobile] 216.650.3605
[Email] linda.szymanski@no.co [Skype] linda21260
no.co

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-----Original Message-----
From: admin@citizensbank.com [mailto:admin@citizensbank.com]
Sent: Wednesday, January 08, 2014 3:58 PM
To: Linda Szymanski
Subject: Wire Confirmation

To: Linda.Szymanski@no.co From: MMGPS-
Wire confirmation alert RE: Wire sent to acct#: xxxxxxxxxx 838 From: The Noco Company amount: USD185.00 at 03:54 PM ET ref: 140108CTZIUS33AXXX6060378878.

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Exhibit M

From: wanny <sales10@car-ku.com>
Sent: Thursday, January 9, 2014 9:51 PM
To: Jonathan Nook
Subject: Re: Re: Lithium JumpCharge
Attachments: SGS report.pdf; Intertek Performance test.pdf

Dear Jon,

Our company address is correct.

You know, we are a producer, some technique information can not be shared.We can not share the drawing of products or new design. Pls advise what kind of engineering information you want?Enclosed pls find our testing report and check if they can help you to learn more about our products.

Best wishes

---

wanny

From: Jonathan Nook
Date: 2014-01-10 10:29
To: sales10
Subject: Re: Lithium JumpCharge

Wanny:

Thanks for the quick response. We look forward to seeing you on Thursday. To confirm, your address is: ADD: 2 Floor, Block A, Tongsheng Technology Building,Huahui Road,Dalang, Longhua New District, Shenzhen China 518109

Also, could you please kindly send more detailed engineering information for our technical to review before the meeting. Any thing you could share would be helpful.

-Jonathan

Jonathan Lewis Nook, MBA | CVO, President
The NOCO Company Since 1914
HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA
[Phone] 216.464.8131 x207 [Email] j@no.co [Skype] jonathannook
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On Jan 9, 2014, at 8:41 PM, wanny <sales10@car-ku.com> wrote:

Dear Jon,

Thank you for your information.

This Thursday is ok for us, welcome to visit our company. Our General Manager Mr. Michael Zhang will receive you.of couse you can send your function requirement and design after you finish, we can make preparation when we meet.
Anything call me directly.

Best wishes

Wanny
Foreign Sales Department Manager

<60600_LOGO.png>
Shenzhen Carku Technology Co.,Ltd
ADD: 2 Floor, Block A, Tongsheng Technology Building,Huahui Road,Dalang, Longhua New District, Shenzhen China 518109
Tel: 86-0755-85298289-877
Fax: 86-0755-61673510
Mobile: 0086-13076965851
0086-13714962190
QQ: 2769424685
Skype: carku15
Skype: yifengwan
Mail: sales10@car-ku.com
Website: http://www.car-ku.com

From: Jonathan Nook
Date: 2014-01-10 09:00
To: sales10
Subject: Re: Lithium JumpCharge

Hi Wanny:

Everyone is finally back at NOCO and we had an opportunity to discuss your company, its product, and how it might fit into NOCO's plans for 2014. We would like to meet with your team next Thursday, January 16th, at 9AM at your facility. We would need to make sure that your engineers, owners, and any decision makers of the company would be in attendance at the meeting. Our team will be flying in on short notice, and working hard of the weekend to create functional requirement documents and design files in preparation for our meeting. Please let us know as soon as possible if the date and time is workable for you.

During our meeting, please be prepared to discuss:

-Technical information regarding the lithium jumpstarter
-Review our functional requirements
-Review our custom industrial design

-Business Terms

Look forward to your quick reply. Jonathan

Jonathan Lewis Nook, MBA | CVO, President
The NOCO Company Since 1914
HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA
[Phone] 216.464.8131 x207 [Email] j@no.co [Skype] jonathannook
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SGS-CSTC Standards Technical Services Co., Ltd.

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technological Development District, Guangzhou, China 510663
Telephone: +86 (0) 20 82155555
Fax: +86 (0) 20 82075059
Email: ee.guangzhou@sgs.com

TEST REPORT

Application No.:	GZEM1309004129TX
Applicant:	SHENZHEN CARKU TECHNOLOGY CO., LTD
Product Name:	MINI EPOWER
Product Description:	Power supply unit
Model No:	MPOWER, UPOWER, CPOWER, SPOWER, WPOWER, GPOWER, ELECTRONIC SCORPION, EPOWER, EPOWER-01, EPOWER-02, EPOWER-03, EPOWER-04, EPOWER-05, EPOWER-06, EPOWER-07, EPOWER-08, EPOWER-09, EPOWER-10, EPOWER-11, EPOWER-12, EPOWER-13, EPOWER-14, EPOWER-15, EPOWER-16, EPOWER-17, EPOWER-18, EPOWER-19, EPOWER-20, LIPO JUMP ♣
♣	Please refer to section 3 of this report for more details.
Standards:	AS/NZS CISPR 22: 2009+A1:2010
Date of Receipt:	2013-09-04
Date of Test:	2013-09-11 to 2013-10-22
Date of Issue:	2013-10-29 (for original report: GZEM130900412901) 2013-10-31 (for new report: GZEM130900412902)
Test Result :	**Pass***

* In the configuration tested, the EUT complied with the standards specified above. This report GZEM130900412902 supersedes the previous report GZEM130900412901, issued on 2013-10-29, which is hereby deemed null and void.

Richard Li
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00		2013-10-29		Original report
01		2013-10-31		Changed models.

Authorized for issue by:				
Tested By		Yam Shan **(Yam Shan) /Project Engineer**		2013-09-11 to 2013-10-22 **Date**
Prepared By		Karon Yang **(Karon Yang) /Clerk**		2013-10-31 **Date**
Checked By		Kobe . Jian **(Kobe Jian) /Reviewer**		2013-10-31 **Date**

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3 Test Summary

Electromagnetic Interference (EMI)				
Test	**Test Requirement**	**Test Method**	**Class / Severity**	**Result**
Conducted Emission on AC at mains terminals (9kHz to 30MHz)	AS/NZS CISPR 15: 2011	AS/NZS CISPR 15: 2011	Table 2a	PASS①
Conducted Emission (150 KHz to 30 MHz)	AS/NZS CISPR 22: 2009+A1:2010	AS/NZS CISPR 22: 2009+A1:2010	Class B	PASS①
Conducted Emission at telecommunication port	AS/NZS CISPR 22: 2009+A1:2010	N/A	Class B	N/A
Radiated Electromagnetic Disturbance (9KHz to 30MHz)	AS/NZS CISPR 15: 2011	AS/NZS CISPR 15: 2011	Table 3a	PASS
Radiated Emission (30 MHz to 300 MHz)	AS/NZS CISPR 15: 2011	CISPR 22: 2008	Table 3b	PASS
Radiated Emission (30 MHz to 1 GHz)	AS/NZS CISPR 22: 2009+A1:2010	AS/NZS CISPR 22: 2009+A1:2010	Class B	PASS①
Radiated Emission above 1 GHz	AS/NZS CISPR 22: 2009+A1:2010	N/A	Class B	N/A

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Remark :

EUT: In this whole report EUT means Equipment Under Test.

N/A: Not applicable, please refer to section 7.2 & 7.5 of this report for details.

♣ Model No.: MPOWER, UPOWER, CPOWER, SPOWER, WPOWER, GPOWER, ELECTRONIC SCORPION, EPOWER, EPOWER-01, EPOWER-02, EPOWER-03, EPOWER-04, EPOWER-05, EPOWER-06, EPOWER-07, EPOWER-08, EPOWER-09, EPOWER-10, EPOWER-11, EPOWER-12, EPOWER-13, EPOWER-14, EPOWER-15, EPOWER-16, EPOWER-17, EPOWER-18, EPOWER-19, EPOWER-20, LIPO JUMP

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model name.

Therefore only one model **EPOWER** was tested in this report.

① The EUT passed Conducted Emission(150 KHz to 30 MHz), Conducted Emission on AC at mains terminals (9kHz to 30MHz) and Radiated Emission (30 MHz to 1 GHz) tests after the modification as below:

1. Add one capacitor which capacitance is 1nF for the IC U7 as the following photo shown.



2. Add one capacitor which capacitance is 1nF for the IC U4 as the following photo shown.



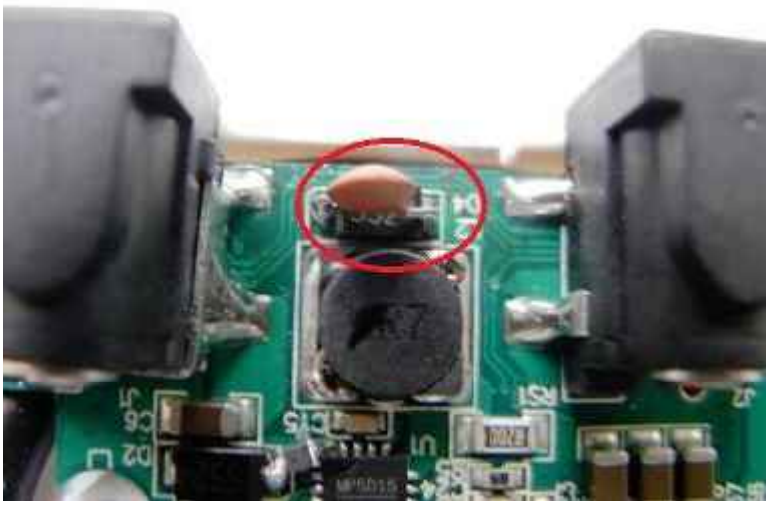
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3. Add one ferrite bead for the 16th pin of IC U1 as the following photo shown.



Ferrite Bead Model No.: FBMA-11-201209-601A20

4. Add one capacitor which capacitance is 10nF connected in parallel with diode D4 of IC U1 as the following photo shown.



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5. Add one ferrite core for the DC output cable which is twisted two circles near the DC Jack as the following photo shown.



Ferrite Core Model No.: RC 90B
KING CORE ELECTRONICS INC

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5 General Information

5.1 Client Information

Applicant:	SHENZHEN CARKU TECHNOLOGY CO., LTD
Address of Applicant:	2nd Flood, Tongsheng Technology Building, Dalang, Longhua New District, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	MINI EPOWER
Product Description:	Power supply unit
Model No:	EPOWER

5.3 Details of E.U.T.

Rated Supply (Voltage):	Input : DC 12 V 1A Output: DC 12 V 2A & 5 V 2A
Adapter details	Model No.:SAPB14014US Input: AC 100-240 V, 50/60 Hz 0.6A Max Output: DC 14 V, 1.0 A
Power Cord:	1.0 m x 2 wires unscreened DC output cable(from AC/DC adapter) 1.1 m unscreened cable with vehicle connector 0.3 m unscreened cable with Battery clamp 0.3 m unscreened cable with USB connector

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5.4 Description of Support Units

The EUT has been tested with resistor or Ipad as load.

Description	Manufacturer	Model No.	SN/Certificate NO
iPad	Apple	MB292CH	V5036GTBZ38
iPad Mini	Apple	A1432	DLXKM5KNF196

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5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

  SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

- **ACMA**

  SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

  Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

  SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC (Registration No.: 282399)**

  SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

- **Industry Canada (Registration No.: 4620B-1)**

  The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

- **VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)**

  The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584，G-449 and T-1179 respectively.

- **CBTL (Lab Code: TL129)**

  SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01:2006-10 and Rules of procedure IECEE 02:2006-10, and the relevant IECEE CB-Scheme Operational documents.

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5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory,

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,

Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

The EUT passed Conducted Emission(150 KHz to 30 MHz), Conducted Emission on AC at mains terminals (9kHz to 30MHz) and Radiated Emission (30 MHz to 1 GHz) tests after the modification.

5.9 General Test Climate During Testing

Temperature: 15-30 °C Humidity: 30~70 %RH Atmospheric Pressure: 860~1060 mbar

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6 Equipment Used during Test

Conducted Emission						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due date (YYYY-MM-DD)	Calibration Interval
EMC0306	Shielding Room	Zhong Yu	8 x 3 x 3.8 m^3	N/A	N/A	N/A
EMC0118	Two-line v-netwok	R&S	ENV216	100359	2014-03-04	1Y
EMC0102	LISN	SCHAFFNER CHASE	MN2050D/1	1421	2014-8-31	1Y
EMC2046	Artificial Mains Network (LISN)	AFJ Instruments	LT32C	S.N.32031120150	2014-03-04	1Y
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	2014-03-04	1Y
EMC0107	Coaxial Cable	SGS	2m	N/A	2014-07-25	2Y
EMC0106	Voltage Probe	SGS	N/A	N/A	N/A	1Y
EMC0120	8 Line ISN	Fischer Custom Communications	FCC-TLISN-T8-02	20550	2014-8-31	1Y
EMC0121	4 Line ISN	Fischer Custom Communications	FCC-TLISN-T4-02	20549	2014-8-31	1Y
EMC0122	2 Line ISN	Fischer Custom Communications	FCC-TLISN-T2-02	20548	2014-8-31	1Y
EMC2047	CDN	Elektronik-Feinmechanik	L-801:AF2	2793	2014-11-11	3Y
EMC2048	CDN	Elektronik-Feinmechanik	L-801:M2/M3	2738	2014-11-11	3Y
EMC2062	6dB Attenuator	HP	8491A	24487	2014-01-04	1Y
EMC167	Conical metal housing	SGS-EMC	N/A	N/A	2013-12-16	1Y

RE LOOP						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due date (YYYY-MM-DD)	Calibration Interval
EMC0701	Loop Antenna	Laplace Instruments	RF300	N/A	2013-09-06	2Y
EMC0409	Software	Rohde & Schwarz	ESK1	N/A	N/A	N/A
EMC0506	EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	2014-03-04	1Y

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RE in Chamber						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due date (YYYY-MM-DD)	Calibration Interval
EMC0525	Compact Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	2014-08-30	2Y
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100283	2014-05-06	1Y
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	100236	2014-03-04	1Y
EMC0528	RI High frequency Cable	SGS	20 m	N/A	2014-05-09	1Y
EMC2025	Trilog Broadband Antenna 30-3000MHz	SCHWARZBECK MESS-ELEKTRONIK	VULB 9163	9163-450	2016-08-31	3Y
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	2016-08-31	3Y
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	2014-06-02	2Y
EMC2026	Horn Antenna 1-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	9120D-841	2016-08-31	3Y
EMC0518	Horn Antenna	Rohde & Schwarz	HF906	100096	2014-07-01	2Y
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	2014-03-04	1Y
EMC2065	Amplifier	HP	8447F	N/A	2014-08-31	1Y
EMC2063	1-26GHz Pre Amplifier	Compliance Direction System Inc.	PAP-1G26-48	6279.628	2014-07-29	1Y
EMC0075	310N Amplifier	Sonama	310N	272683	2014-03-04	1Y
EMC0523	Active Loop Antenna	EMCO	6502	42963	2014-04-07	2Y
EMC2041	Broad-Band Horn Antenna (14)15-26.5(40)GHz	SCHWARZBECK MESS-ELEKTRONI	BBHA 9170	9170-375	2014-06-01	3Y
EMC2069	2.4GHz filter	Micro-Tronics	BRM 50702	149	2014-06-05	1Y
EMC0530	10m Semi-Anechoic Chamber	ETS	N/A	N/A	2014-04-27	2Y

General used equipment						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Due date (YYYY-MM-DD)	Calibration Interval
EMC0006	DMM	Fluke	73	70681569	2013-11-5	1Y
EMC0007	DMM	Fluke	73	70671122	2013-11-5	1Y

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7 Emission Test Results

7.1 Conducted Emissions Mains Terminals, 9 KHz to 30MHz

Test Requirement: AS/NZS CISPR 22, AS/NZS CISPR 15

Test Method: AS/NZS CISPR 22, AS/NZS CISPR 15

Test Voltage: 230V AC, 50Hz

Test Date: 2013-09-11 (initial test)
2013-10-22 (test after modification)

Frequency Range: 9 kHz to 30 MHz ,150KHz to 30MHz

Detector: Peak for pre-scan
Quasi-Peak and Average for final measurement
200Hz resolution bandwidth between 9kHz & 150kHz
9kHz resolution bandwidth between 150kHz & 30MHz

Class / Limit:

AS/NZS CISPR 22

Frequency range MHz	**Class B Limits** dB (µV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
NOTE 1 :The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE 2: The lower limit is applicable at the transition frequency.		

AS/NZS CISPR 15

Frequency range MHz	**Limits** dB (µV)[a]	
	Quasi-peak	Average
0.009 to 0.05	110	---
0.05 to 0.150	90-80[b]	---
0.150 to 0.5	66-56[b]	56-46[b]
0.5 to 5.0	56[c]	46[c]
5.0 to 30	60	50

[a] At the transition frequency, the lower limit applies.

[b] The limit decreases linearly with the logarithm of the frequency in the ranges 50 kHz to 150 kHz and 150 kHz to 0.5 MHz.

[c] For electrodeless lamps and luminaires, the limit in the frequency range of 2.51 MHz to 3.0 MHz is 73 dB(µV) quasi-peak and 63 dB(µV) average.

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7.1.1 E.U.T. Operation

For AS/NZS CISPR 22:

Test the EUT in charging mode.

For AS/NZS CISPR 15:

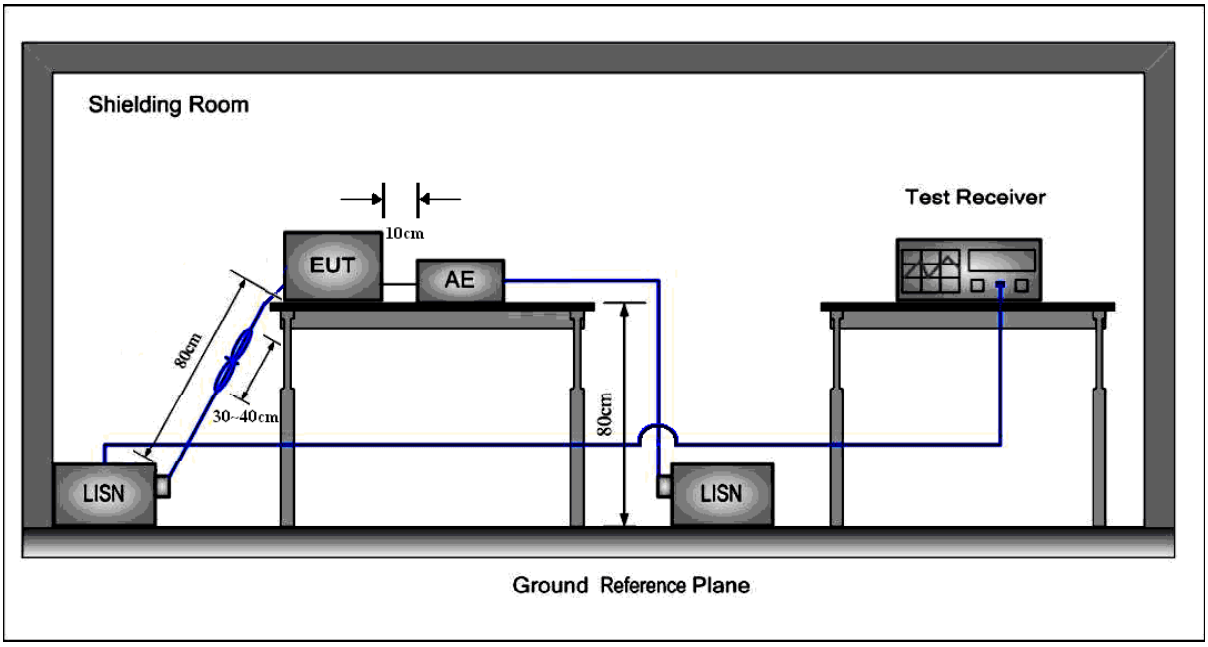
Test the EUT in lighting mode with AC adapter.

Pre-test the EUT supply voltage shall be within ±2 % of the rated voltage. In the case of a voltage range, measurement shall be carried out within ±2 % of each of the nominal supply voltages of that range.

In order to check the level of disturbance varies considerably with the supply voltage, compliance test at AC 230V as no worse case was found.

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7.1.2 Test Setup and Procedure



1. The mains terminal disturbance voltage test was conducted in a shielded room.
2. The EUT was connected to nominal power supply through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

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7.1.3 Measurement Data

Pre-scan was performed with peak detected on both live and neutral cable. Quasi-peak & average measurements were performed at the frequencies which maximum peak emission level was detected.

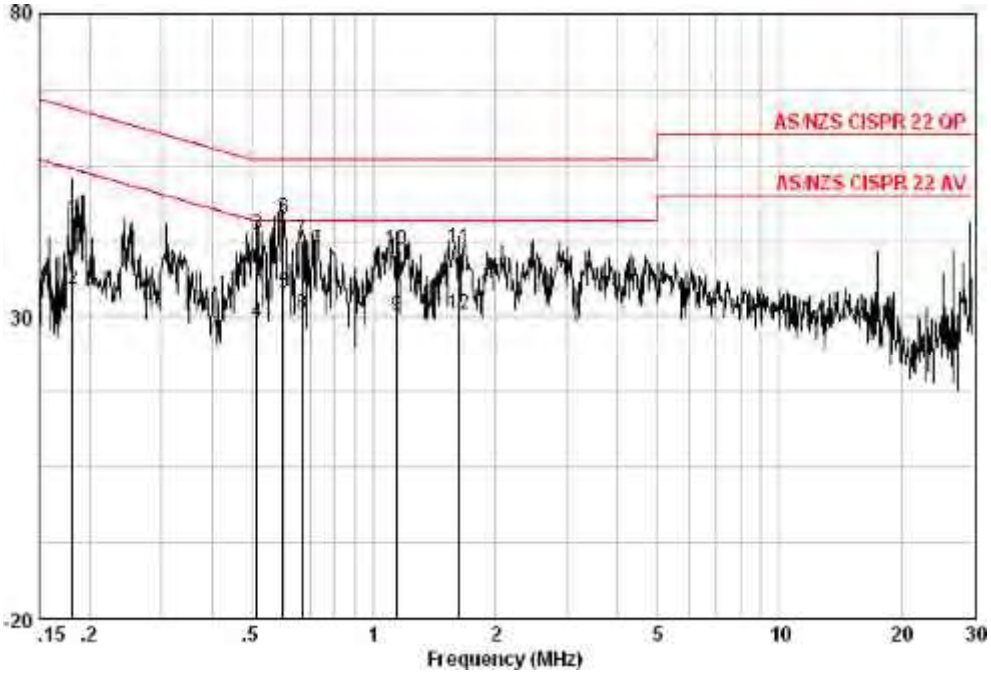
Please see the attached Quasi-peak and Average test results.

For AS/NZS CISPR 22:

Live Line:

Peak Scan:

Level (dBµV)



Quasi-peak and Average measurement

Freq	Read Level	Cable Loss	LISN Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0,182	36,34	0,10	9,49	45,94	64,42	-18,48	QP
0,182	24,95	0,10	9,49	34,55	54,42	-19,87	AVERAGE
0,516	33,82	0,07	9,53	43,42	56,00	-12,58	QP
0,516	19,55	0,07	9,53	29,15	46,00	-16,85	AVERAGE
0,600	24,37	0,07	9,55	33,99	46,00	-12,01	AVERAGE
0,600	36,70	0,07	9,55	46,32	56,00	-9,68	QP
0,668	33,20	0,06	9,54	42,81	56,00	-13,19	QP
0,668	20,93	0,06	9,54	30,54	46,00	-15,46	AVERAGE
1,141	20,54	0,05	9,56	30,15	46,00	-15,85	AVERAGE
1,141	31,50	0,05	9,56	41,11	56,00	-14,89	QP
1,619	31,66	0,05	9,56	41,27	56,00	-14,73	QP
1,619	20,74	0,05	9,56	30,35	46,00	-15,65	AVERAGE

Level = Read Level + LISN Factor + Cable Loss.

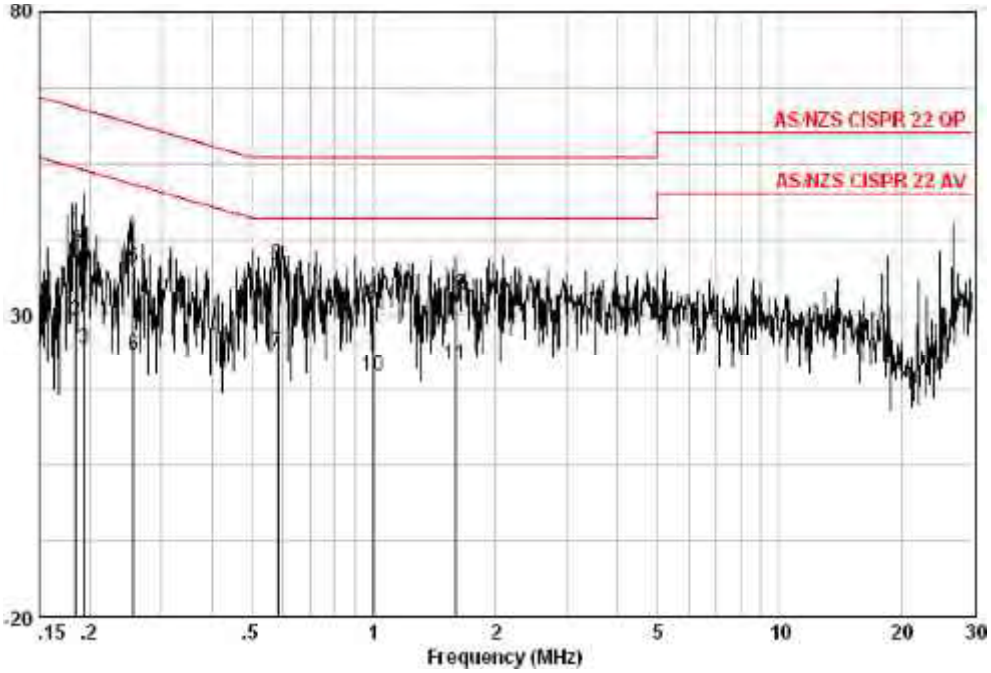
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For AS/NZS CISPR 22:

Neutral Line:

Peak Scan:

Level (dBµV)



Quasi-peak and Average measurement:

Freq	Read Level	Cable Loss	LISN Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.184	34.16	0.11	9.52	43.79	64.28	-20.50	QP
0.184	19.40	0.11	9.52	29.03	54.28	-25.26	AVERAGE
0.193	14.85	0.11	9.53	24.49	53.89	-29.40	AVERAGE
0.193	31.62	0.11	9.53	41.26	63.89	-22.63	QP
0.256	28.10	0.11	9.52	37.73	61.56	-23.83	QP
0.256	13.68	0.11	9.52	23.31	51.56	-28.25	AVERAGE
0.579	14.11	0.07	9.57	23.75	46.00	-22.25	AVERAGE
0.579	28.66	0.07	9.57	38.30	56.00	-17.70	QP
1.000	22.24	0.05	9.59	31.88	56.00	-24.12	QP
1.000	10.14	0.05	9.59	19.78	46.00	-26.22	AVERAGE
1.602	12.11	0.05	9.60	21.76	46.00	-24.24	AVERAGE
1.602	23.64	0.05	9.60	33.29	56.00	-22.71	QP

Level = Read Level + LISN Factor + Cable Loss.

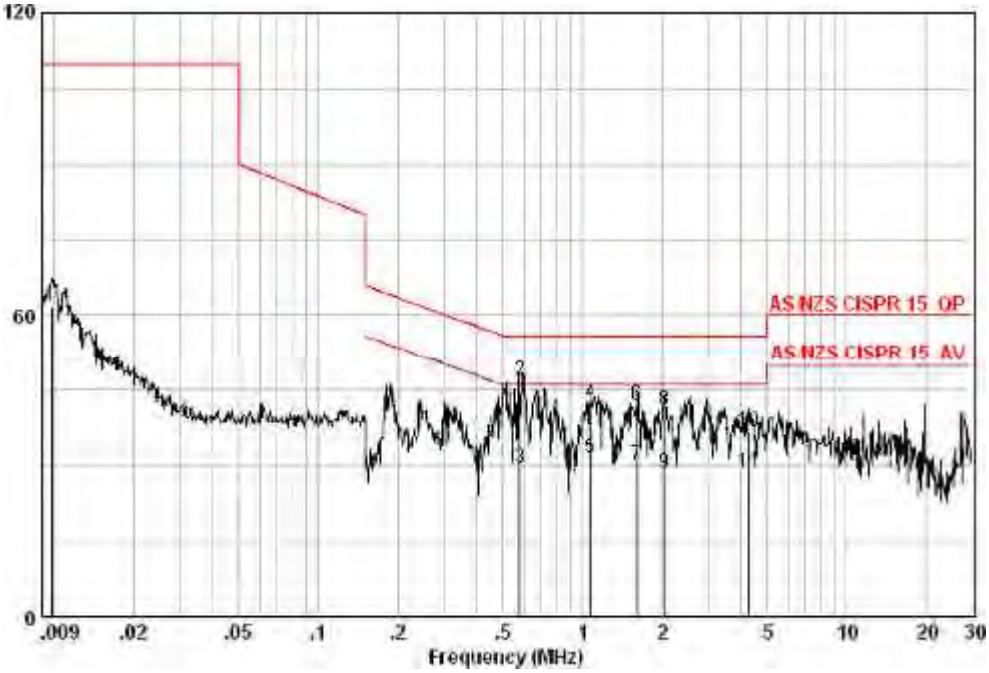
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For AS/NZS CISPR 15:

Live Line:

Peak Scan:

Level (dBµV)



Quasi-peak and Average measurement

Freq	Read Level	Cable Loss	LISN Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0,010	51,80	0,00	9,88	61,68	110,00	-48,32	QP
0,582	37,20	0,07	9,57	46,84	56,00	-9,16	QP
0,582	19,63	0,07	9,57	29,27	46,00	-16,73	AVERAGE
1,077	32,40	0,05	9,59	42,04	56,00	-13,96	QP
1,077	21,66	0,05	9,59	31,30	46,00	-14,70	AVERAGE
1,619	32,04	0,05	9,60	41,69	56,00	-14,31	QP
1,619	20,41	0,05	9,60	30,06	46,00	-15,94	AVERAGE
2,055	31,18	0,06	9,61	40,85	56,00	-15,15	QP
2,055	18,89	0,06	9,61	28,56	46,00	-17,44	AVERAGE
4,292	26,96	0,17	9,65	36,78	56,00	-19,22	QP
4,292	18,63	0,17	9,65	28,45	46,00	-17,55	AVERAGE

Level = Read Level + LISN Factor + Cable Loss.

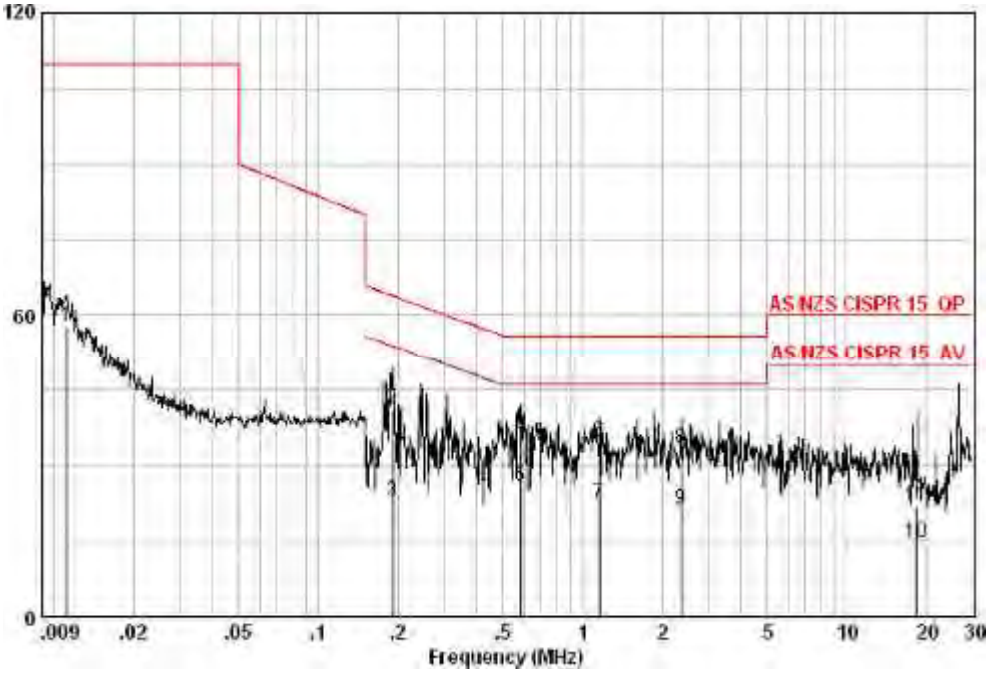
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For AS/NZS CISPR 15:

Neutral Line:

Peak Scan:

Level (dBµV)



Quasi-peak and Average measurement:

Freq	Read Level	Cable Loss	LISN Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.011	48.24	0.00	9.73	57.97	110.00	-52.03	QP
0.191	31.58	0.11	9.53	41.22	63.98	-22.76	QP
0.191	13.18	0.11	9.53	22.82	53.98	-31.16	AVERAGE
0.585	28.32	0.07	9.57	37.96	56.00	-18.04	QP
0.585	16.22	0.07	9.57	25.86	46.00	-20.14	AVERAGE
1.166	24.98	0.05	9.60	34.63	56.00	-21.37	QP
1.166	13.00	0.05	9.60	22.65	46.00	-23.35	AVERAGE
2.371	23.58	0.09	9.62	33.29	56.00	-22.71	QP
2.371	11.56	0.09	9.62	21.27	46.00	-24.73	AVERAGE
18.524	4.01	0.40	10.19	14.60	50.00	-35.40	AVERAGE
18.524	11.46	0.40	10.19	22.05	60.00	-37.95	QP

Level = Read Level + LISN Factor + Cable Loss.

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7.2 Conducted Emissions at Telecommunication ports, 150 KHz to 30 MHz

Test Requirement:	AS/NZS CISPR 22
Frequency Range:	150 KHz to 30 MHz
Class / Limit:	Class B
Test Date:	**N/A: See Remark Below**

Remark:

There is no need for Conducted Emission at telecommunication port test to be performed on this product in accordance with AS/NZS CISPR 22 because there is no telecommunication port in the product.

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7.3 Radiated Electromagnetic Disturbance Test: 9 KHz to 30 MHz

Test Requirement: AS/NZS CISPR 15

Test Method: AS/NZS CISPR 15

Test Date: 2013-10-22

Power Supply: AC 230V 50Hz

Frequency Range: 9 kHz to 30 MHz

Class / Severity: Table 3a of AS/NZS CISPR 15

Detector: Peak for pre-scan
Quasi-Peak for final measurement
200 Hz resolution bandwidth between 9 kHz & 150 kHz
9 kHz resolution bandwidth between 150 kHz & 30 MHz

Limit:

Frequency range MHz	**Limits for loop diameter limits 2m** dB (μA)[a]
0.009 to 0.070	88
0.070 to 0.150	88 to 58[b]
0.150 to 3.0	58 to 22[b]
3.0 to 30.0	22

[a] At the transition frequency, the lower limit applies.

[b] Decreasing linearly with the logarithm of the frequency. For electrodeless lamps and luminaires, the limit in the frequency range of 2,2 MHz to 3,0 MHz is 58 dB(μA) for 2 m, 51 dB(μA) for 3 m and 45 dB(μA) for 4 m loop diameter.

7.3.1 E.U.T. Operation

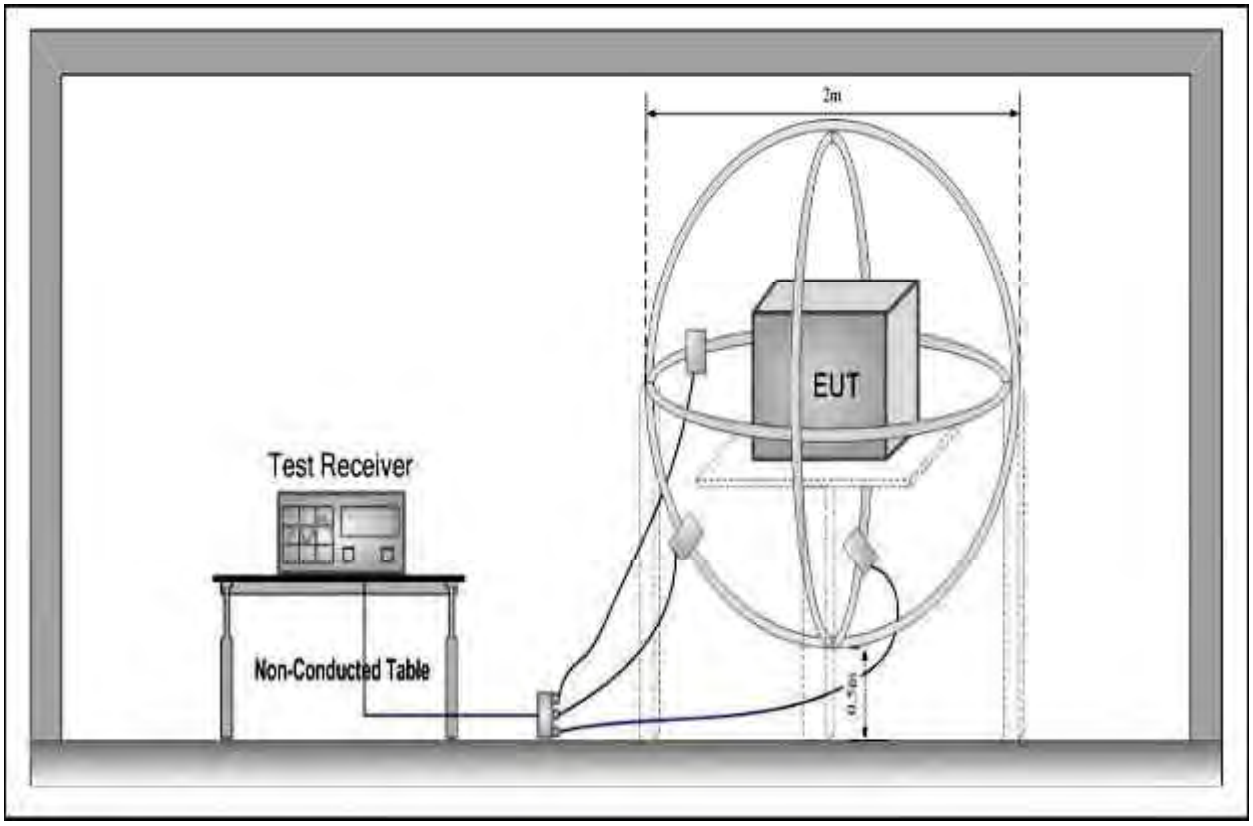
Test the EUT in lighting mode with AC adapter and discharging mode with lighting..

Pre-test the EUT supply voltage shall be within ±2 % of the rated voltage. In the case of a voltage range, measurement shall be carried out within ±2 % of each of the nominal supply voltages of that range.

In order to check the level of disturbance varies considerably with the supply voltage, compliance test at AC 230V as no worse case was found.

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7.3.2 Test Setup and Procedure



1. The magnetic component was measured by means of a loop antenna. The lighting equipment was placed in the centre of the antenna. The position of the mains lead was optimized for maximum current induction.
2. The induced current in the loop antenna was measured by means of a current probe (1 V/A) and the CISPR measuring receiver. During the measurements the EUT remains in a fixed position.By means of a coaxial switch, The currents in the three large loop antennas, originating from the three mutually orthogonal magnetic field components, were measured in sequence. Each value was fulfil the requirements given.
3. There were no special instructions for the supply wiring.
4. The distance between the outer perimeter of the LAS(Loop Antenna System) and nearby objects, such as floor and walls, was at least 0.5 m.
5. To avoid unwanted capacitive coupling between the EUT and the LAS, the maximum dimensions of the EUT allowed a distance of at least 0.20 m between the EUT and the standardized 2 m large loop antennas of the LAS.

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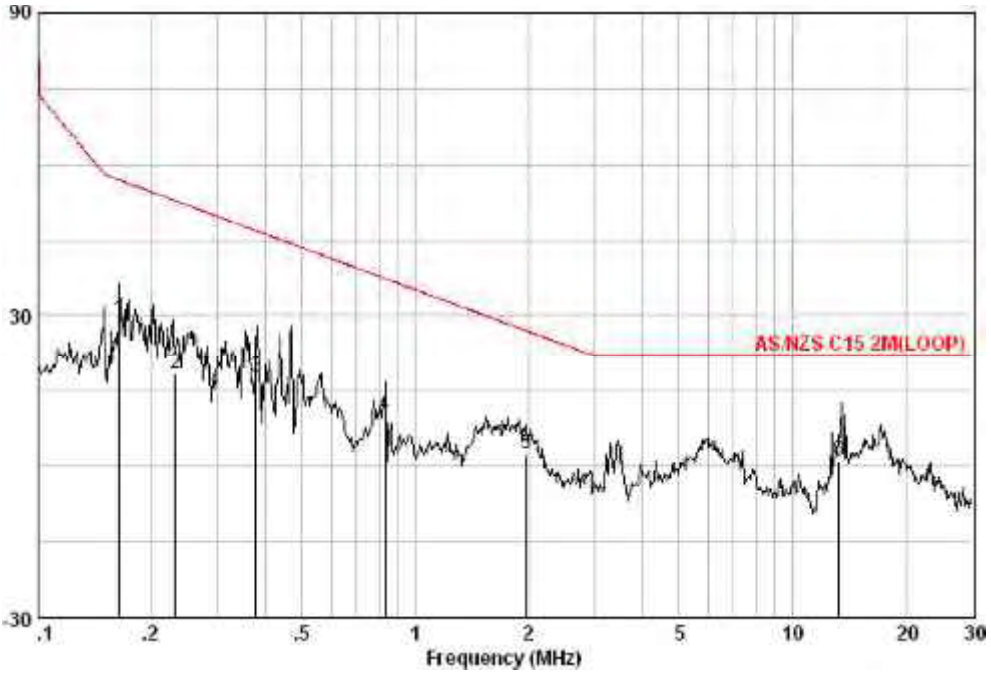
7.3.3 Measurement Data

An initial pre-scan was performed in the 2 m loop antenna using the spectrum analyser in peak detection mode. The EUT was measured for X(A), Y(B), Z(C) polarities.

Peak Measurement Data of A_Loop Peak Scan

Peak Scan:

Level (dBµA)



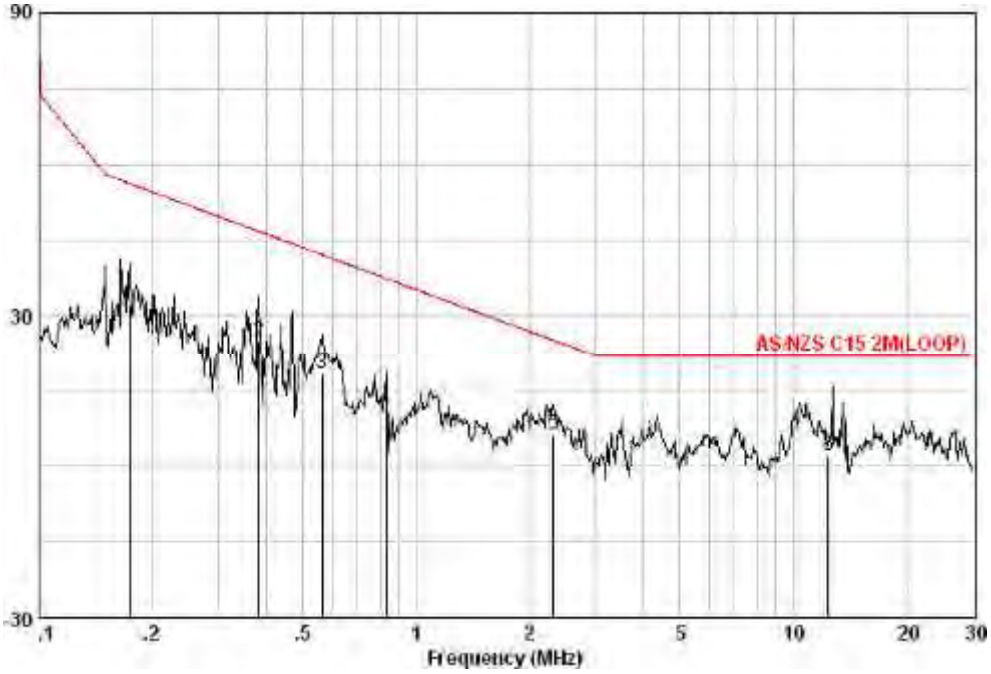
Frequency MHz	Read Level dBuA	Transducer dB	Measured Level dBuA	Limit Line dBuA	Over Limit dB	Remark
0,164	45,08	-15,80	29,28	56,91	-27,63	QP
0,231	36,84	-18,34	18,50	52,82	-34,32	QP
0,379	39,87	-22,04	17,83	46,87	-29,04	QP
0,832	35,90	-25,71	10,19	37,42	-27,22	QP
1,965	28,80	-26,52	2,28	27,08	-24,80	QP
13,330	27,46	-26,47	1,00	22,00	-21,00	QP

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Peak Measurement Data of B_Loop Peak Scan

Peak Scan:

Level (dBµA)



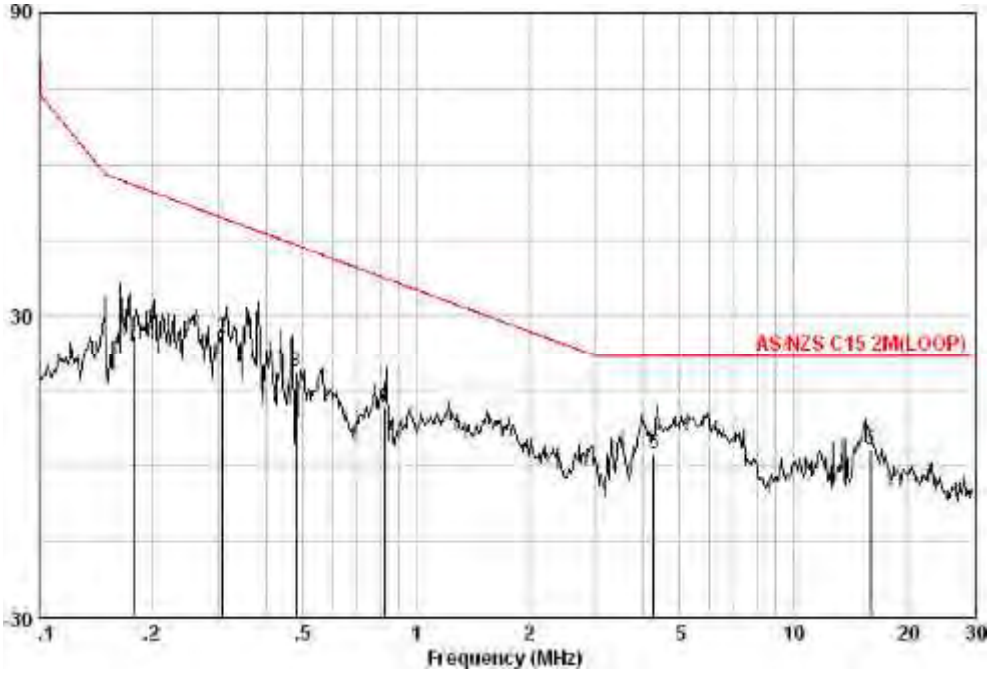
Frequency MHz	Read Level dBuA	Trans ducer dB	Measured Level dBuA	Limit Line dBuA	Over Limit dB	Remark
0,174	48,49	-16,22	32,27	56,23	-23,96	QP
0,382	46,88	-22,10	24,78	46,77	-21,99	QP
0,564	42,77	-24,48	18,28	42,09	-23,81	QP
0,832	36,90	-25,71	11,19	37,42	-26,22	QP
2,311	32,87	-26,57	6,29	25,13	-18,84	QP
12,392	29,12	-27,10	2,01	22,00	-19,99	QP

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Peak Measurement Data of C_Loop Peak Scan

Peak Scan:

Level (dBµA)



Frequency MHz	Read Level dBuA	Trans ducer dB	Measured Level dBuA	Limit Line dBuA	Over Limit dB	Remark
0,180	42,39	-16,46	25,93	55,84	-29,91	QP
0,307	46,03	-20,46	25,57	49,41	-23,84	QP
0,479	42,68	-23,80	18,88	44,04	-25,16	QP
0,825	37,62	-25,69	11,94	37,51	-25,57	QP
4,282	29,48	-27,07	2,41	22,00	-19,59	QP
16,064	27,77	-24,40	3,37	22,00	-18,63	QP

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7.4 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	AS/NZS CISPR 22, AS/NZS CISPR 15
Test Method:	AS/NZS CISPR 22, CISPR 22
Test Voltage:	230V AC, 50Hz
Test Date:	2013-09-12 (initial test) 2013-10-09 (test after modification)
Frequency Range:	30MHz to 1GHz
Measurement Distance:	10 m
Detector:	Peak for pre-scan Quasi-Peak if maximised peak within 6dB of limit (120 kHz resolution bandwidth)
Class / Limit:	Class B

Frequency range MHz	**Quasi-peak limits** dB (µV/m)
30 to 230	30
230 to 1 000	37
At transitional frequencies the lower limit applies.	

7.4.1 E.U.T. Operation

For AS/NZS CISPR 22:

Test the EUT in charging mode with AC adapter, discharging mode with DC 5V and 12V.

Test the EUT in charging mode with AC adapter for the compliance test as worse case was found.

For AS/NZS CISPR 15:

A pre-test was performed on the EUT in lighting mode with AC adapter and discharging mode with lighting in order to find worse case.

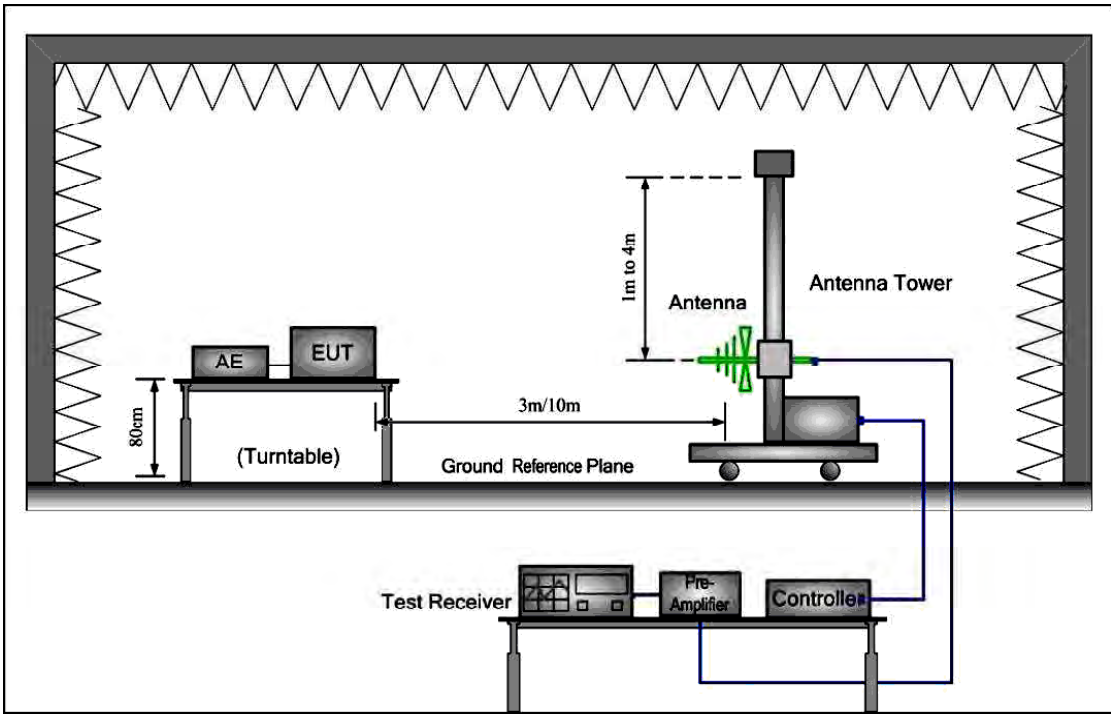
Test the EUT in lighting mode with AC adapter for the compliance test as worse case was found.

Pre-test the EUT supply voltage shall be within ±2 % of the rated voltage. In the case of a voltage range, measurement shall be carried out within ±2 % of each of the nominal supply voltages of that range.

In order to check the level of disturbance varies considerably with the supply voltage, compliance test at AC 230V as no worse case was found.

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7.4.2 Test Setup and Procedure



1. The radiated emissions test was conducted in a semi-anechoic chamber.
2. Biconical and log periodic antenna was used for the frequency range from 30MHz to 1GHz
3. The EUT was connected to nominal power supply through a mains power outlet which was bonded to the ground reference plane; The mains cables were draped to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.
5. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

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7.4.3 Measurement Data

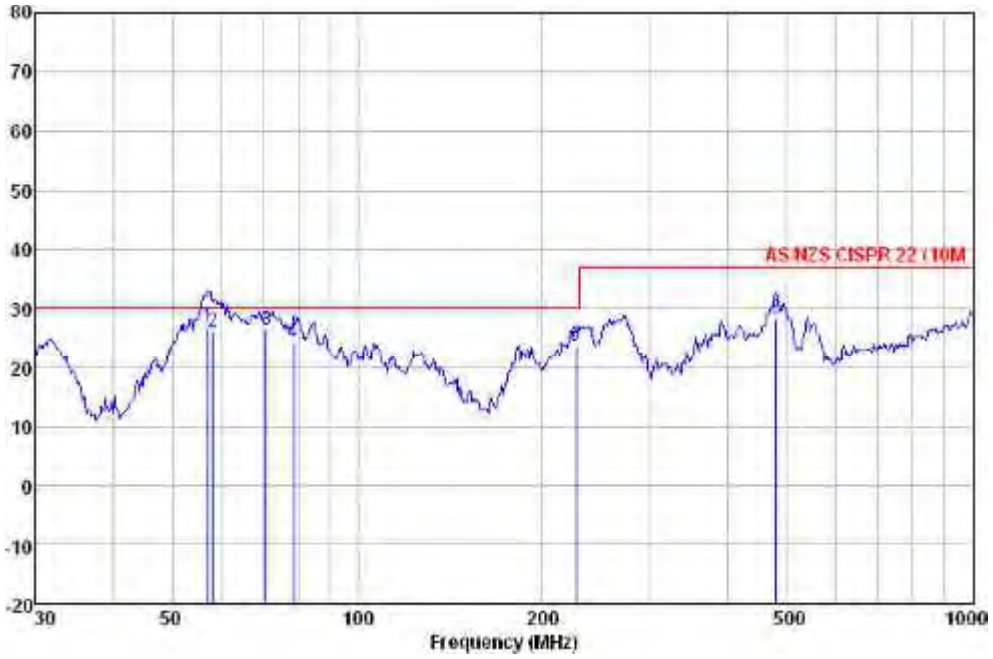
For AS/NZS CISPR 22:

For charging mode:

Vertical:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
57.191	43.34	12.02	1.09	29.54	26.91	30.00	-3.09	QP
58.203	42.58	11.95	1.10	29.54	26.09	30.00	-3.91	QP
71.080	47.05	7.60	1.24	29.60	26.29	30.00	-3.71	QP
78.689	45.23	7.52	1.28	29.63	24.40	30.00	-5.60	QP
226.894	39.71	11.47	2.03	29.53	23.68	30.00	-6.32	QP
478.846	38.10	16.58	3.03	29.52	28.19	37.00	-8.81	QP

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

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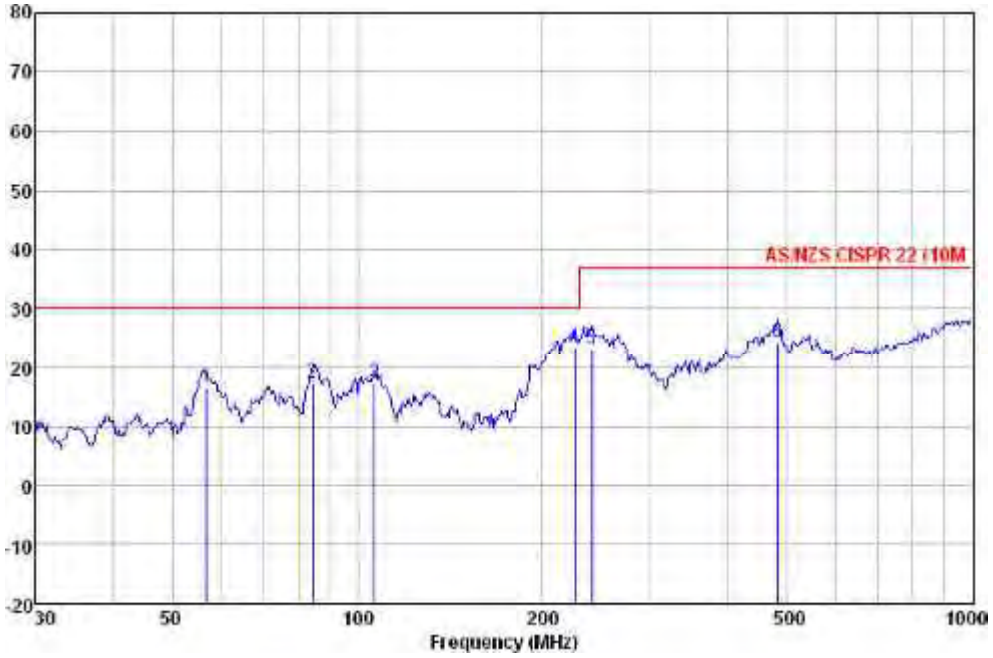
For AS/NZS CISPR 22:

For charging mode:

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
56.792	32.85	12.04	1.08	29.54	16.43	30.00	-13.57	
84.405	36.27	9.30	1.31	29.65	17.23	30.00	-12.77	
106.385	33.71	11.73	1.47	29.70	17.21	30.00	-12.79	
225.308	39.72	11.35	2.02	29.53	23.56	30.00	-6.44	
239.987	38.43	12.10	2.10	29.54	23.09	37.00	-13.91	
482.216	34.18	16.65	3.04	29.52	24.35	37.00	-12.65	

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

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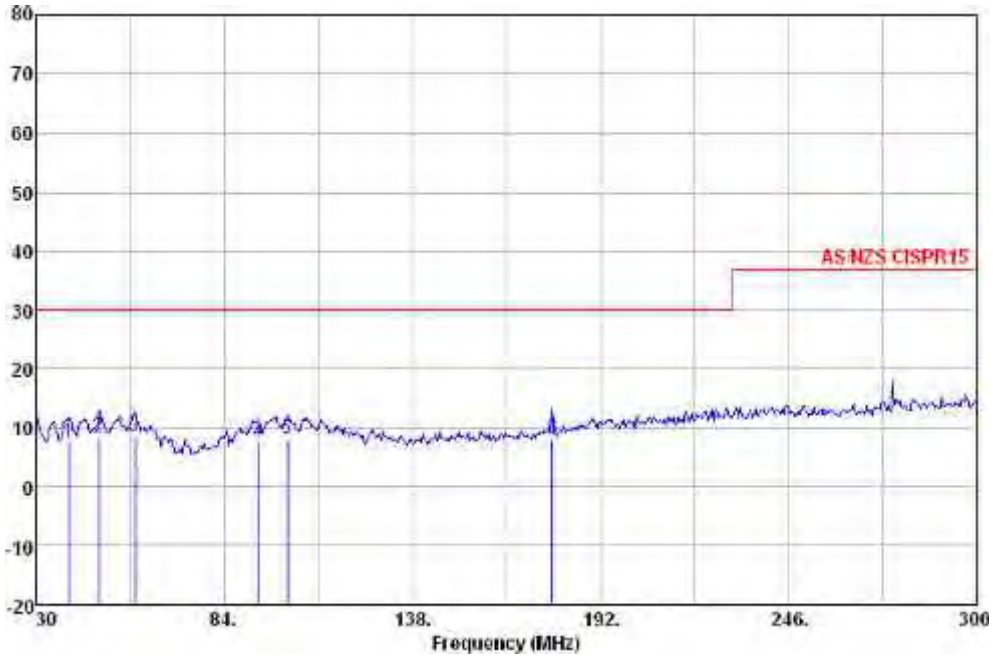
For AS/NZS CISPR 15:

For lighting mode:

Vertical:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
39.180	23.60	12.54	0.92	29.50	7.56	30.00	-22.44	QP
47.820	24.15	12.52	0.99	29.50	8.16	30.00	-21.84	QP
58.080	25.01	11.96	1.10	29.54	8.53	30.00	-21.47	QP
93.720	23.99	11.72	1.37	29.68	7.40	30.00	-22.60	QP
102.090	24.25	12.11	1.44	29.70	8.10	30.00	-21.90	QP
178.230	26.57	9.24	1.81	29.58	8.04	30.00	-21.96	QP

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

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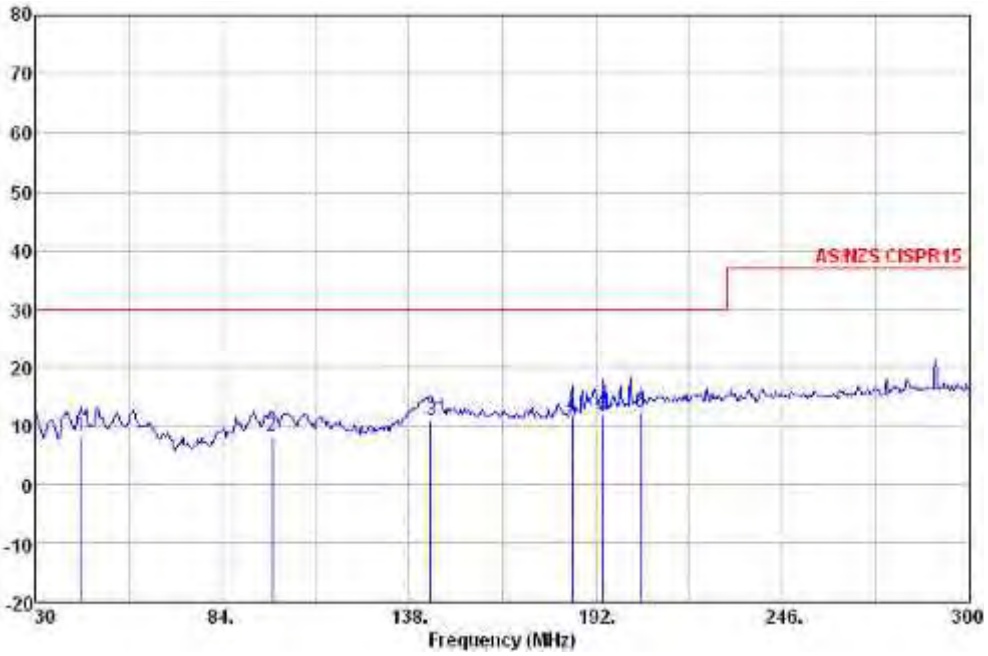
For AS/NZS CISPR 15:

For lighting mode:

Horizontal:

Peak scan

Level (dBμV/m)



Quasi-peak measurement

Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
42.960	24.19	12.71	0.95	29.50	8.35	30.00	-21.65	QP
98.310	24.39	12.20	1.41	29.69	8.31	30.00	-21.69	QP
144.210	31.41	7.63	1.68	29.70	11.02	30.00	-18.98	QP
185.250	29.50	9.89	1.83	29.55	11.67	30.00	-18.33	QP
194.160	29.08	10.35	1.86	29.52	11.77	30.00	-18.23	QP
205.230	29.29	10.58	1.91	29.51	12.27	30.00	-17.73	QP

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

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7.5 Radiated Emissions above 1 GHz

Test Requirement:	AS/NZS CISPR 22
Frequency Range:	1 GHz to 6 GHz
Measurement Distance:	3 m
Class / Limit:	Class B
Test Date:	**N/A: See Remark Below**

Remark:

There is no need for Radiated Emissions (above 1G) test to be performed on this product in accordance with AS/NZS CISPR 22 because the highest internal source is less than 108 MHz. For further details, please refer to Clause 6.3 of AS/NZS CISPR 22 which states:
If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz.

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8 Photographs

8.1 Conducted Emissions Mains Terminals Test Setup



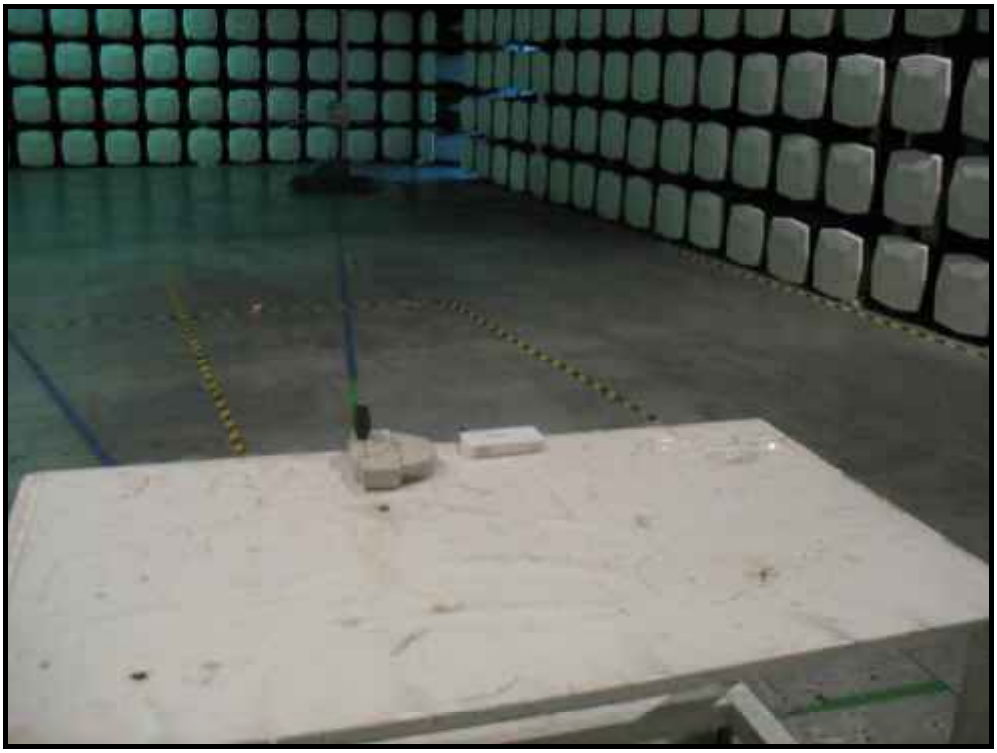
8.2 Radiated Electromagnetic Disturbance Test Setup



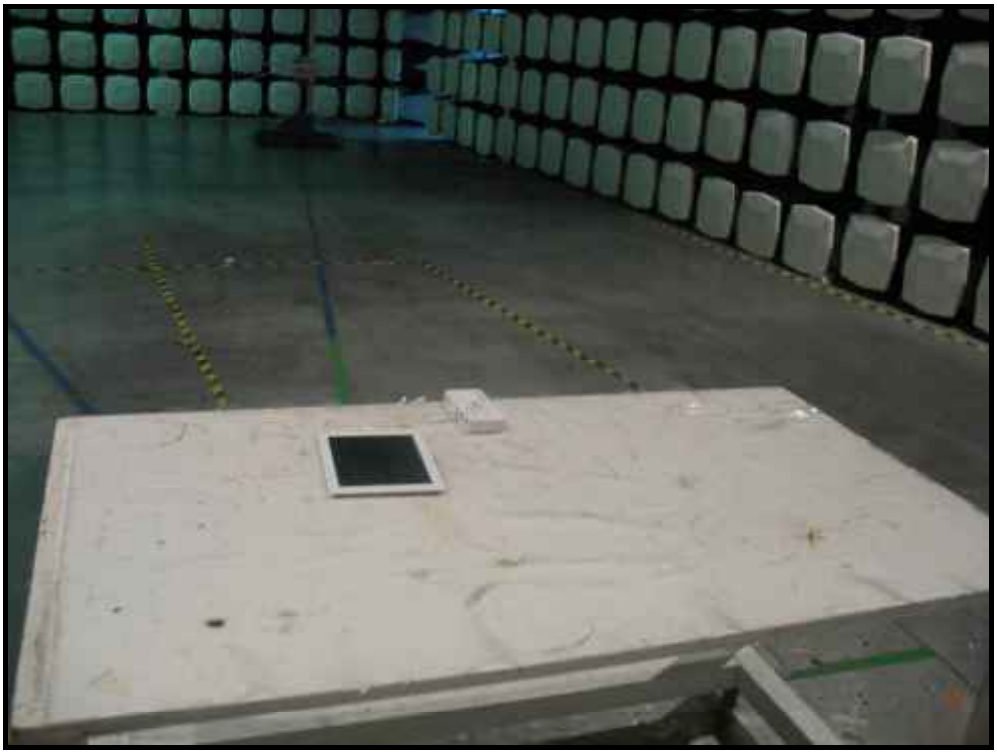
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8.3 Radiated Emissions, 30MHz to 1GHz Test Setup

For charging mode:



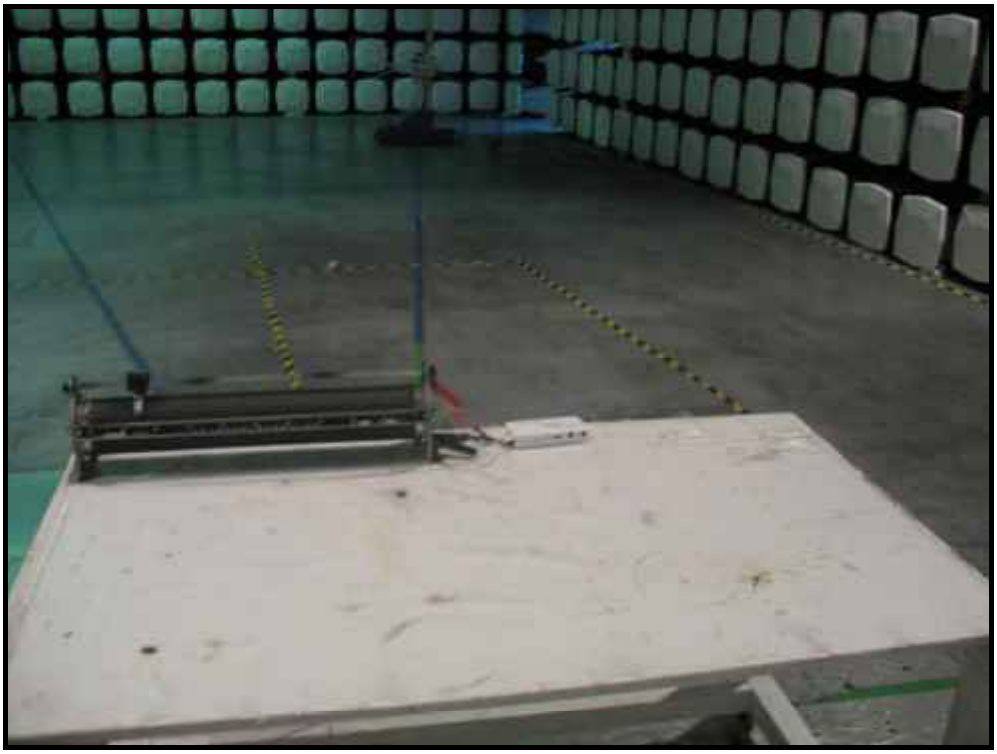
For discharging mode with 5V:



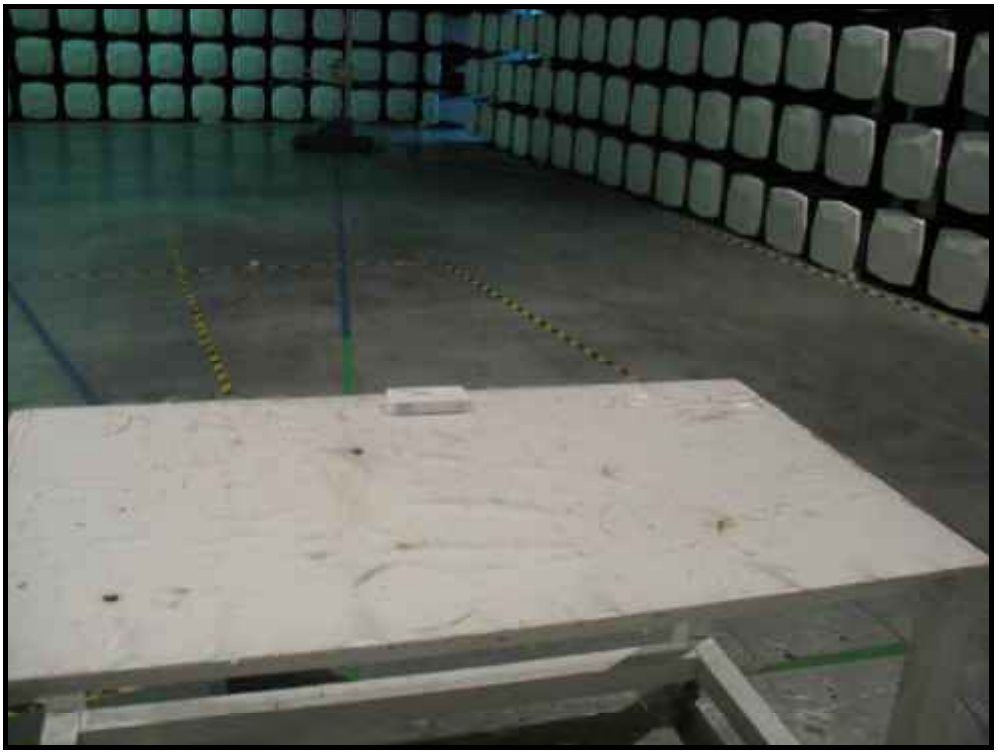
ADC EX1053
IPR2025-00885

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For discharging mode with 12V:



For lighting mode:



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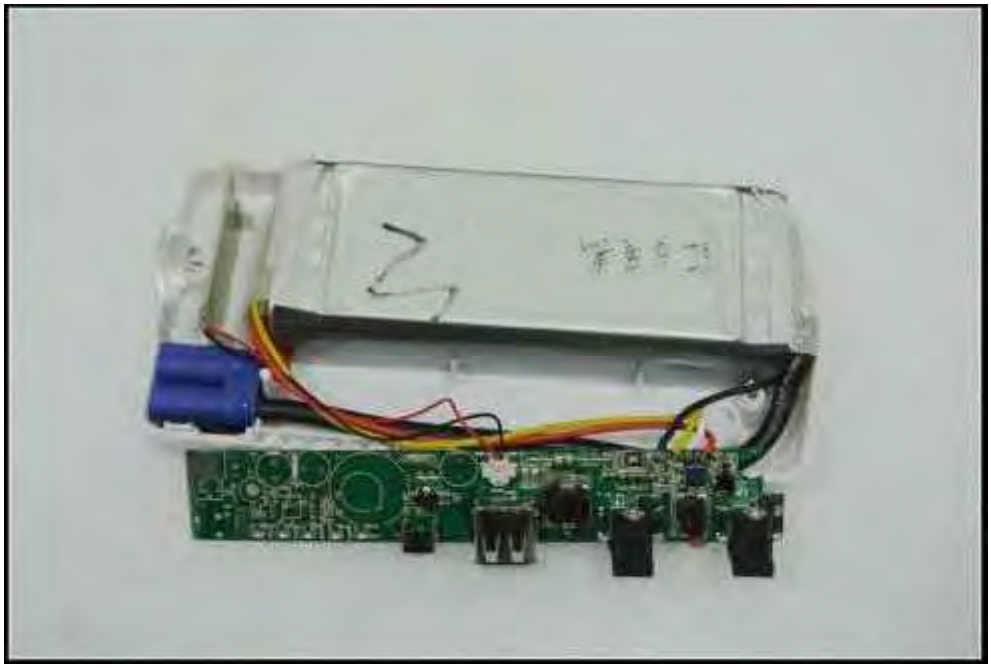
8.4 EUT Constructional Details



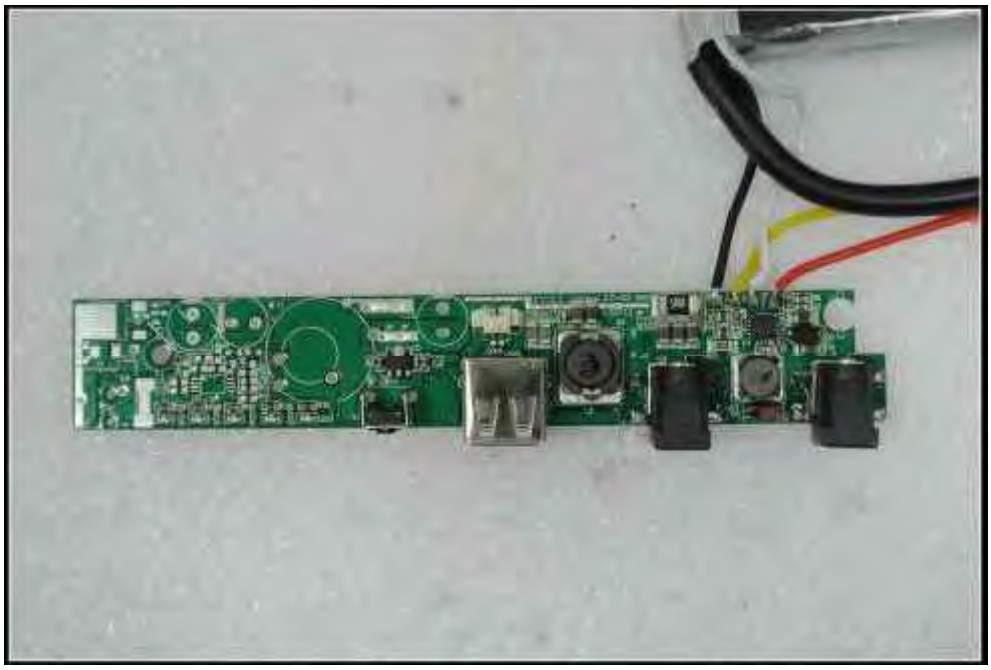


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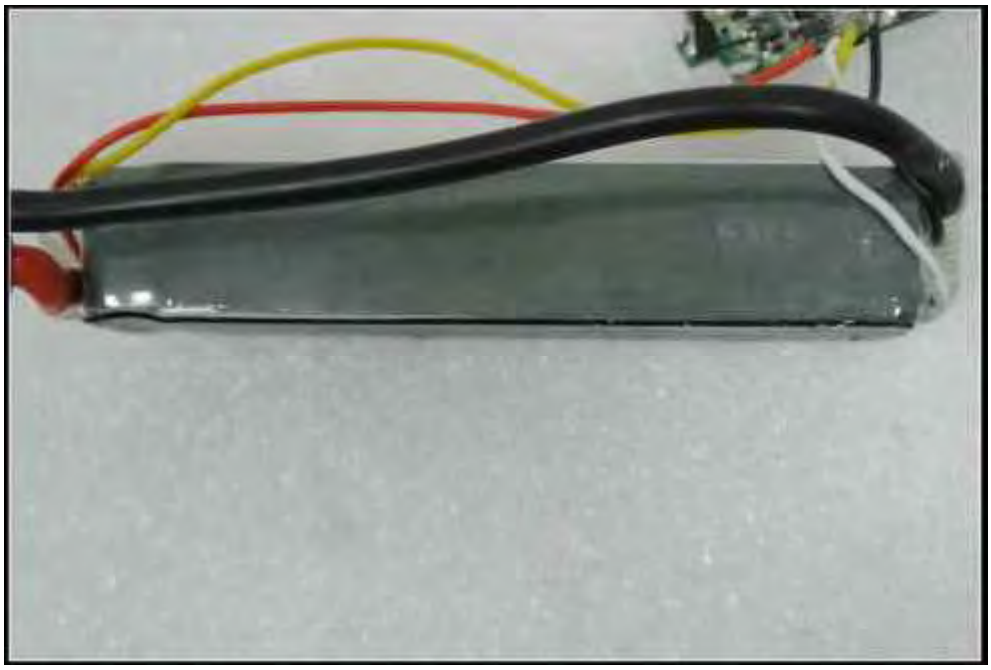


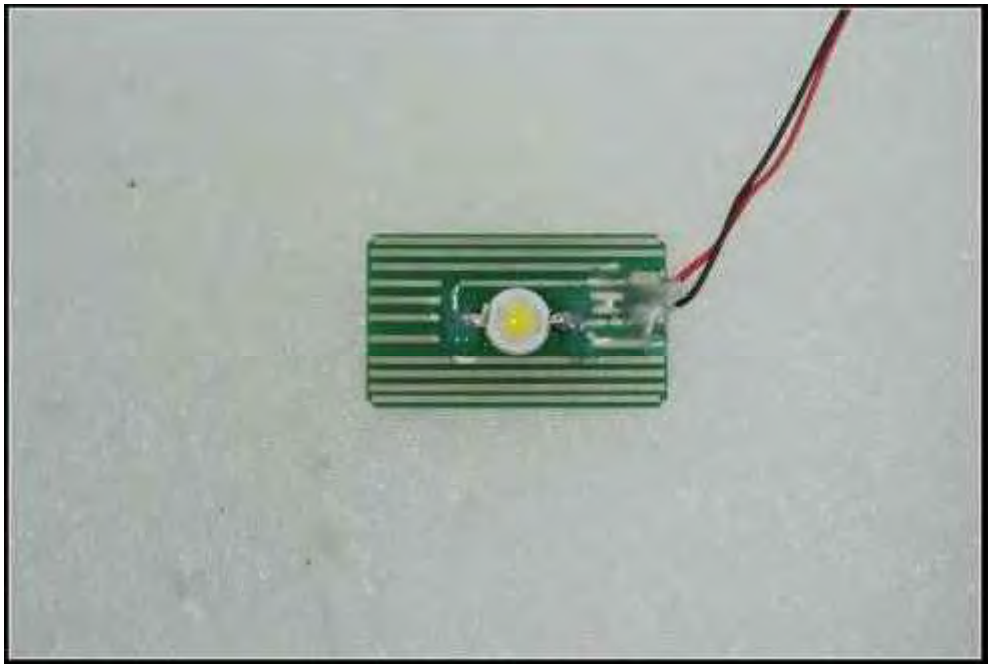
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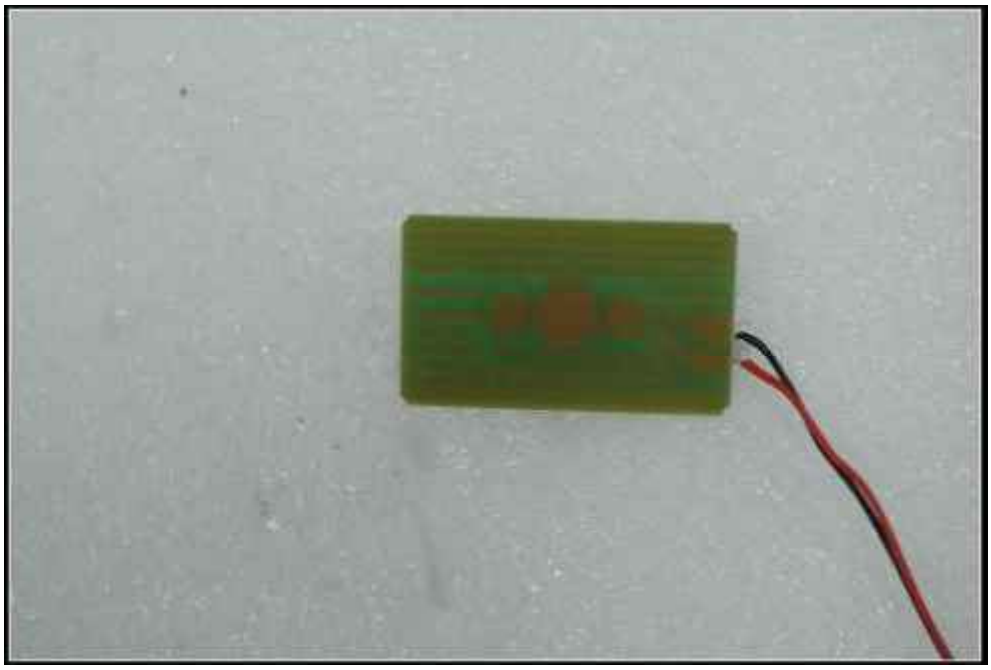


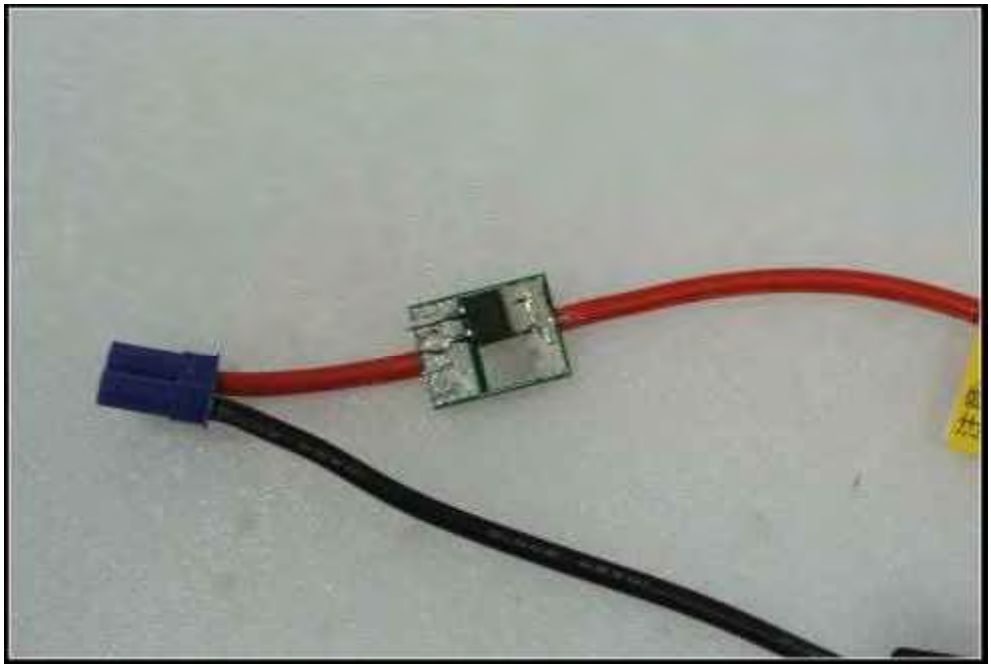
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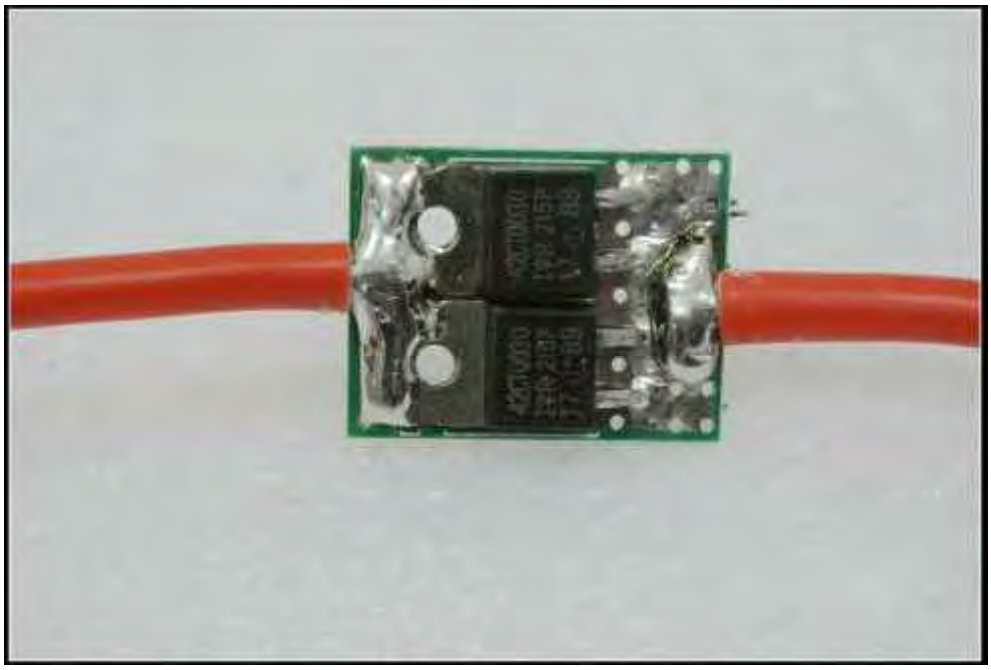


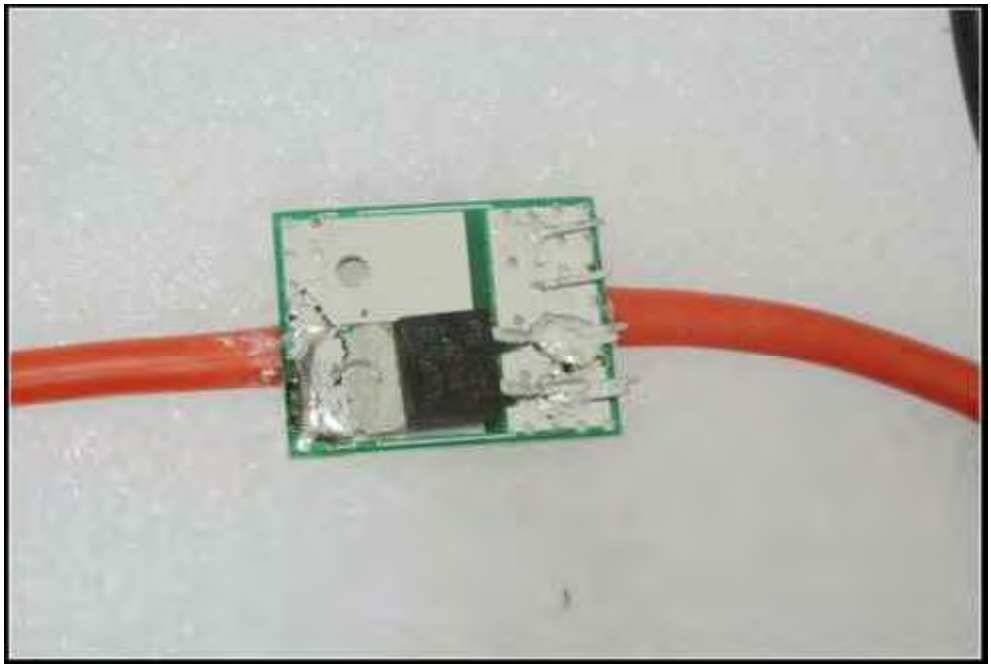
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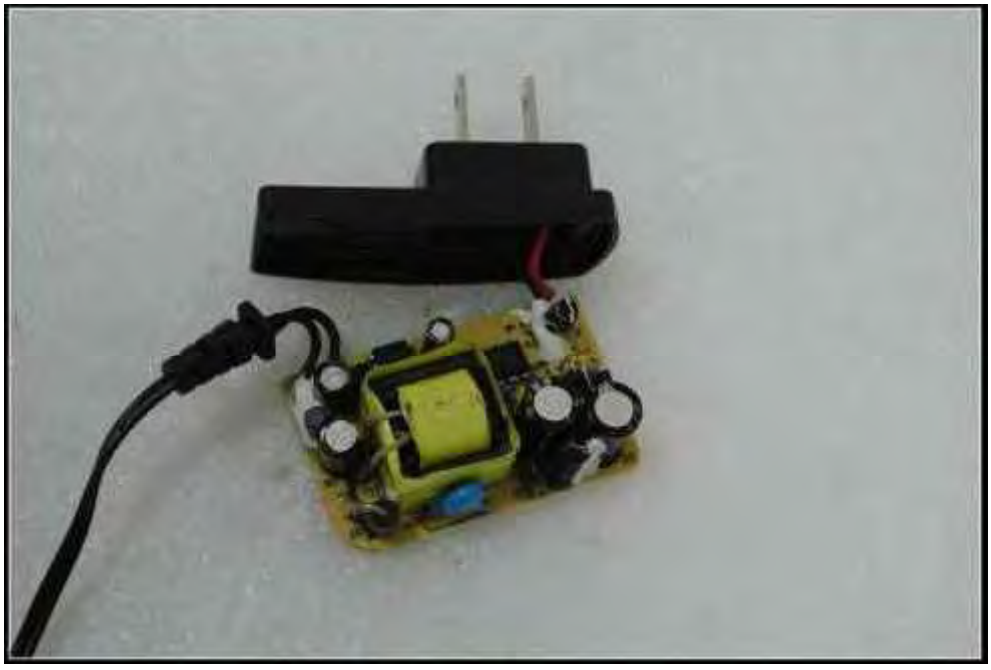
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TEST REPORT

Report Number: 130314069GZU-001
Issued Date: March 15, 2013

Applicant : Shenzhen Carku Technology Co., Ltd.

Address : Yifang Industrial Park, Bantian, Longgang District, Shenzhen

Specimen Description

Product	:	Multi-function Jump Starter
Reference Number	:	E-POWER
Sample Received Date	:	March 14, 2013
Quantity of Sample	:	2 pieces

Test Content

Date Test Conducted	:	March 14, 2013 to March 15, 2013
Test Requested	:	Performance Test
Test Standard/Method	:	According to applicant's requirements

Test Results : Please see the following pages for details

Remark: When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Prepared by:

Jeff Lin
Engineer

Reviewed by:

William Su
Supervisor

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SAMPLE INFOMRATION

2 pieces samples were received on March 14, 2013.

No obvious damage was found on any sample before test.

Sample photograph before test

Product Overview



Cell



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TEST RESULT

Test Item	Test Method	Test Limit	Test Result
1. Over charge voltage	Charge the product. Measure the cell voltage.	4.20V±0.05	4.19V
2. End-point voltage	Discharge the product through USB port. Measure the End-point voltage of cell.	2.7±0.3V	2.4V
3. Stand-by current	Measure the stand-by current.	<400 μA	226.08μA
4. Output test (USB port)	Measure the output voltage under the load of 2A.	5.1±0.1V	5.02V
5. AC adapter (charger) output test	Measure the AC adapter output voltage under the load of 1A	14±0.1V	Input: 240V 50Hz Output voltage: 13.97V
6. Charging current test	Charge the product with 14 ± 1VDC. Measure the corresponding charging current.	Charging current should not less than 0.75A	Charging current at 13VDC: 0.886A Charging current at 14VDC: 0.832A Charging current at 15VDC: 0.772A
7. Cell capacity test	Measure the capacity of single cell	≥3700mAh	3718mAh

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130314069GZU-001

Test Item	Test Method	Test Limit	Test Result
8. Starting current test	Environment temperature: 25 ± 2℃. Starting current: 80C (296A). 3 seconds on and 30 seconds off for 5 cycles	No deformation. No leakage. Open-circuit voltage after last discharge should more than 8.1V Maximum temperature of product surface should not exceed 60℃.	Open-circuit voltage before test: 12.62V. No deformation and leakage was found after test. Open-circuit voltage after last discharge: 8.58V Maximum temperature of product surface: 44.6℃.
	Environment temperature: 25 ± 2℃. Starting current: 100C (370A). 3 seconds on and 30 seconds off for 3 cycles	No deformation. No leakage. Open-circuit voltage after last discharge should more than 7.5V Maximum temperature of product surface should not exceed 60℃.	Open-circuit voltage before test: 12.54V. No deformation and leakage was found after test. Open-circuit voltage after last discharge: 7.71V. Maximum temperature of product surface: 48.3℃.

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	Environment temperature: 60 ± 2°C. Starting current: 60C (296A). 3 seconds on and 30 seconds off for 1 cycle	No deformation. No leakage. Open-circuit voltage after last discharge should more than 9V Maximum temperature of product surface should not exceed 80°C.	Open-circuit voltage before test: 12.50V. No deformation and leakage was found after test. Open-circuit voltage after last discharge: 9.51V. Maximum temperature of product surface: 60.7°C.
	Environment temperature: -20± 2°C. Starting current: 60C (222A). 3 seconds on and 30 seconds off for 5 cycles	No deformation. No leakage. Open-circuit voltage after last discharge should more than 8.1V Maximum temperature of product surface should not exceed 60°C.	Open-circuit voltage before test: 12.66V. No deformation and leakage was found after test. Open-circuit voltage after last discharge: 8.49V. Maximum temperature of product surface: 38.3°C.

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Test Item	Test Method	Test Limit	Test Result
9. Intelligent Starter clamp test	Connect the intelligent clamp to the product. Short the anode and cathode of the clamp.	No spark	No spark
	Connect the intelligent clamp to the product. Connect with another product in series.	No spark	No spark
	Connect the intelligent clamp to the product. Connect with DC power in parallel.	When the voltage of DC power is less than 8.1±0.5V or more than 12.6±0.5V, the intelligent clamp should keep in status of off. Otherwise, the intelligent clamp should keep in status of on.	When the voltage of DC power is 8.0V or less, the intelligent clamp keeps in status of off. When the voltage of DC power is 12.5V or more, the intelligent clamp keeps in status of off. When the voltage of DC power is between 8.1V and 12.4V, the intelligent clamp keeps in cycling of on and off.

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130314069GZU-001

REVISION SUMMARY

Date	Project Handler / Reviewer	Page	Description of Change
			None

Exhibit N

From: wanny <sales10@car-ku.com>
Sent: Wednesday, January 22, 2014 4:14 AM
To: jonathan.nook
Subject: Re: Re: NOCO, Jump Starters

Dear Jon,

Pls advise your company registration No. Thank you very much.

Best wishes

---

wanny

From: Jonathan Nook
Date: 2014-01-22 09:32
To: wanny
Subject: Re: NOCO, Jump Starters

Hi Wanny:

Please get back to us as soon as possible on the quotation. A sample is leaving tomorrow. Please go ahead and send the 12/24V sample. In addition please send a couple smart cable samples ASAP. We need our engineers to qualify them fast.

-Jon

Sent from Jonny's iPhone

On Jan 21, 2014, at 8:34 AM, wanny <sales10@car-ku.com> wrote:

> Dear Jon,
>
> Sorry for the late response. We are consulting professional persons about our business cooperation. The new quotation can not be confirmed now as your payment term is Net 90days, we need more time.It's a necessary work for us.
>
> About the 12/24V sample and smart cable, we'd like to send to you before we confirm the first project.
>
> Pls confirm if your company has sent out your sample to us, we'll have long vacation from 2014/1/26-2014/2/6,the engineer won't work during the vacation.
>
> Pls get harry.
>
> Best wishes
> Wanny

From: "Jonathan Nook <jonathan.nook@gmail.com>"
To: "wanny <sales10@car-ku.com>"
CC:
Sent: 2014-01-20 23:27

Subject: Re: NOCO, Jump Starters

Wanny:

Please address all our responses, and provide an updated quotation.

Thanks. Jon

Sent from Jonny's iPhone

On Jan 20, 2014, at 7:50 AM, wanny <sales10@car-ku.com> wrote:

> Dear Jon,
>
> Pls advise when will you send your sample to us? The tooling cost is based on the plastic enclosure.The estimated tooling cost is ￥50,000-￥60,000,We'd like to receive your samples soon to quote you the price.
>
> We agree the profit margin 10% , our requirement is that your order MOQ 20,000pcs/month and at least 200,000pcs in 2014.
>
> We are appreciated that if you send your company detailed information to us,we need it. Thank you for introducing someone to help us to learn more about the trade insurance, pls supply contact information.
>
> Best wishes
> Wanny
>
> ---
>
> **From:** Jonathan Nook
> **Date:** 2014-01-20 14:14
> **To:** sales10
> **Subject:** Re: Fw: Re: NOCO, Jump Starters
> Hi Wanny:
>
> We have reviewed your email, and have the following comments:
>
> 1.) The jump start with have the EC5 port, and NOCO would supply the cable to attach to the port.
>
> 2.) The output connection is 5V 2A USB Port, no 12V 2A port.
> 3.) The smart cable was quoted to us during our meeting at $3.00 USD additional over the cable cost. Since we are providing the cable, the cost should still be only $3.00 USD, not $5.00 USD.
>
> 4.) The profit margin is based on your quotation which shows 10%.
> 5.) The plastic is enclosure is too high. There is only about $0.23 USD of material. We will have you complete the 3D drawings and we will tool and supply this part.
>
> 6.) Our engineers have completed testing on the jump starter samples you provided. We need samples of the smart cable for our engineers to qualify. Please send as soon as possible.
> 7.) Our standard payment terms are Net 90 Days. Please let me know if you need someone to contact you regarding trade insurance. They are very helpful and everyone of our suppliers uses trade insurance.

8.) We need a quote for the tooling charges. Please provide.
9.) Please send two (2) samples of the 12V/24V 1000A jump starter.
10.) We understand your position on exclusively, and request exclusivity for a jump starter with the smart circuit inside the jump starter. Use of the smart cable by others is fine.

Please review these responses and get back with us. We would like to confirm final prices, tooling and samples.

-Jonathan

From: "wanny <sales10@car-ku.com>"
To: "jonathan.nook <jonathan.nook@gmail.com>"
CC:
Sent: 2014-01-20 11:29
Subject: Fw: Re: NOCO, Jump Starters

Dear Jon,

Pls advise if you have received my previous e-mail?

Best wishes

---

wanny

From: wanny
Date: 2014-01-17 19:20
To: Jonathan Nook
CC: Rick Stanfield; Derek Underhill; charles@car-ku.com; 张智锋
Subject: Re: NOCO, Jump Starters

Dear Jon,

Thank you for your e-mail.

We can make the product based on your requirement.There is one questions about your requirements.
Ports (Output): EC5 Connector and Cable (NOCO to provide cable), do you want output 12V2A or 5V 2A? Pls clear it.

Enclosed pls find the quotation for you, smart cable is 5$, not 3$, we already quoted it to you yesterday.It's the best price for you. Carku is a factory, not a trading company.We must be sure there is profit margin before receiveing your order, 10% is not enough. Pls check the new price for you, bulk order price.

About the in car charger price, I will send it to you later, it's a new product and have not been mass produced, we'll check the cost. As the smart cable is designed by ourselves, we can not supply you the sample before receiving your order. Sorry for the inconvenience.

The sample price of 12V/24V jump starter is 92$, pls advise how many piece do you want to test.

As we discussed yesterday, after receive your mould fees, the mass order delivery time is 3months.Yesterday you promised you would send your sample to us within 1week, pls advise when will you send it? And pls send us the 3D drawing for confirming your design.

Waiting for your reply.

---

wanny

From: Jonathan Nook
Date: 2014-01-17 08:33
To: sales10
CC: Rick Stanfield; Derek Underhill
Subject: NOCO, Jump Starters

Hi Wanny:

Thanks for meeting with us. We have reviewed the information you provided us with our sourcing and marketing. Based on our analysis, here is what we want and the price we need to purchase in order to drive them volume we discussed.

8AH JUMP STARTER
Battery Capacity: 8000mAh
Ports (Input): Micro USB, 2A and 12V, 2A
Ports (Output): EC5 Connector and Cable (NOCO to provide cable)
Smart Cable: We want the smart cable, but we want the smart circuitry inside the housing.
12V Car Adapter: Provided by NOCO
Buttons: Light button for turning LED light "on" and "off". Power button for turning the battery pack "on" and "off". And a Switch button for activating the smart circuitry with a low voltage battery.
Charge LEDs: 25%, 50%, 75% and 100%
NOTE: We do not need any phone cables, phone accessories or AC wall charger.

Our target cost is: $25.85
A couple notes regarding our target costs. The LiPO battery was too expensive. NOCO can provide the LiPo batteries, if needed. The plastic enclosure is too expensive, we can supply the plastic enclosure, if needed. Below is a more detailed view, based on your format.

JumpStarter

	8AH		
Item	Quantity	Unit Cost	Ext. Cost
Battery	1	$9.00	$9.00
PCBA #1	1	$5.00	$5.00
PCBA #2	1	$0.08	$0.08
1W LED	1	$0.28	$0.28
LED Lens	1	$0.06	$0.06
Housing	1	$0.50	$0.50

Battery Clamp	0	$0.37	$-	
EC5	0	$1.61	$-	
Fuse	0	$0.28	$-	
Phone Cable	0	$0.50	$-	
Wall Charger	0	$2.00	$-	
Car Charger	0	$0.35	$-	
Smart Circuit	1	$3.00	$3.00	
Rubber Cap	1	$0.04	$0.04	
Retail Box	1	$1.50	$1.50	
Master Carton	1	$0.08	$0.08	
Bag	0	$1.50	$-	
Manual	1	$0.04	$0.04	
Total Material				$19.58
Labor Cost				$2.50
Material Consumption				$0.20
Sale Cost				$0.99
Total Cost				$23.27
Sale Price (10%)				$25.85

Please review and provide us with a formal quotation with a project timeline to mass production (MP). To reconfirm our intention, we will place a 5,000 unit order with an additional 5,000 unit order right behind it for a total of 10,000 units.

In addition, we need to get a couple of the Smart Cable samples shipped to your engineers ASAP. They have also requested a sample of the in car charger and 12/24V jump starter. Please let us know when you can send samples and a quotation.

Thanks, Jon

Jonathan Lewis Nook, MBA | CVO, President
The NOCO Company Since 1914
HQ | 30339 Diamond Parkway, #102 | Glenwillow, OH 44139 | USA
[Phone] 216.464.8131 x207 [Email] j@no.co [Skype] jonathannook
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Roll over image to zoom in

2013 Newest EPOWER Multi-Function Jump Starter 12V Car 13200mAh Portable Battery Power for Car Laptop and Mobile Phone

by autonumen

Currently unavailable.

We don't know when or if this item will be back in stock.

Due to increased demand, we temporarily have reduced product selection available for delivery to your region. We are working to improve selection availability as soon as possible.

Report incorrect product information.

Currently unavailable.
We don't know when or if this item will be back in stock.
Deliver to China

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Have a question?

Find answers in product info, Q&As, reviews

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Type your question or keyword

Product information

Technical Details

Brand	autonumen

Additional Information

ASIN	B00GMJ00SA
Date First Available	November 12, 2013

Warranty & Support

Product Warranty: For warranty information about this product, please click here

Feedback

If you are a seller for this product, would you like to **suggest updates through seller support?**
Would you like to **tell us about a lower price?**

Related video shorts (0) Upload your video



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Product description

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EPOWER Multi-Function Jump Starter for 12V Car-13200mAh-Portable Battery Use 13200mAh high capacity high power polymer cells, fast charging and low self-discharge, cycles can reach 1000 times. Support 12V car for emergency start, portable illumination and various mobile phone, PSP, MP3/MP4. MultiFunction Jump Starter 13200mAh Battery Product Highlights: 1.The smallest and lightest portable power with patented technology in the current market. 2.Use 13200mAh high capacity high power polymer cells, fast charging and low self-discharge, cycles can reach 1000 times. 3.Support 12V car for emergency start, portable illumination and various mobile phone, PSP, MP3/MP4. 4.Pocket PC PDA, notebook as well as other products charge / power supply. 5.Multiple safety protection design to ensure the product has zero defect. Instructions for MultiFunction Jump Starter 13200mAh Battery: 1.Select the appropriate voltage and connector for the electronic device to charge / power supply 2.Press the switch to start charging when your device connected with EPOWER; If you unplug the cable, auto-sleep will start in one minute. 3.Five lights will flash circularly during the charging by EPOWER and all lights will keep bright when your device is full-charged. 4.During the charging for your device, 5.Press the switch five seconds to start If you want to use LED for illumination and select the status (light, strobe, SOS, close) by pressing the switch to transform. 6.Store the product in a cool and dry place and away direct sunlight. Battery Parts List: 1. mobile power x 1pc 2. cell phone adapter cable x 1pc 3. the notebook adapter cable x 1pc 4. the mobile phone interface x 8pcs 5. the notebook interface x 8pcs 6. 220 v Charger x 1pc 7. car charger x 1 8. battery clip x 1

Ad feedback

Customer questions & answers

Have a question? Search for answers

0 votes

Question: I want 22000 mph do you have ?

Answer: I have a 14000mAh, American Empire will sell you the 14000mAh for the same price as the 13200mAh
By A seller **SELLER** on April 28, 2014

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0 votes

Question: where it was made this charger ?

Answer: Made with quality parts in china, and shipped by American Empire, from the United States.
By A seller **SELLER** on April 13, 2014

See more answers (1)

Customer reviews

5 star	0%
4 star	0%
3 star	0%
2 star	0%
1 star	0%

How does Amazon calculate star ratings?

No customer reviews

Review this product

Share your thoughts with other customers

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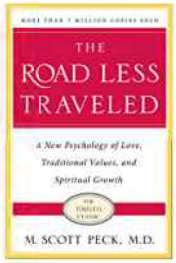
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