

PC1D

Version 5

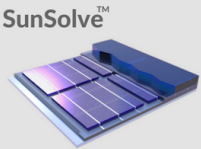
PC1D is the most commonly used software for simulating solar cells.

Link:	PC1D
Authors:	Paul A. Basore and Donald A. Clugston.
Help:	PC1D Help does not work on modern Windows operating systems. A Microsoft download that rectifies this problem can be found here . Be sure that the PC1D.hlp file is in the same directory as the PC1D.exe file. PV Lighthouse also provides an HTML version of the PC1D Help File .
Resources:	<p>PC1D Batch File Generator: Create external batch files for use in PC1D simulations. With an external batch file, multiple inputs can be varied and multiple outputs can be monitored.</p> <p>cmd-PC1D: A modified version of PC1D that runs from a command line. It allows scripted simulations, permits Fermi–Dirac statistics, contains up-to-date models for Auger recombination, mobility and band-gap narrowing, and a free graphical user interface that can be run as a stand-alone executable.</p> <p>Impurity-to-efficiency simulator (I2E): Predicts the impact of as-grown iron impurities and processing conditions on crystalline-silicon solar cell performance, enabling an optimisation of the time–temperature profile of phosphorus diffusion gettering.</p> <p>OPAL 2: Generate and download reflection files with OPAL 2 that are specifically formatted for PC1D simulations. OPAL 2 is the most accurate way to simulate reflection and transmission at the interfaces of a solar cell.</p> <p>PC1D Help File: HTML version of the PC1D help file.</p>
References:	<p>D.A. Clugston and P.A. Basore, “PC1D Version 5: 32-bit solar cell modeling on personal computers,” Proc. 26th IEEE Photovoltaic Specialists Conference, Anaheim, pp. 207–210, 1997.</p> <p>P.A. Basore and D.A. Clugston, “PC1D Version 4 for Windows: From analysis to design,” Proc. 25th IEEE Photovoltaic Specialists Conference, Washington, pp. 377–381, 1996.</p> <p>P.A. Basore, “PC-1D Version 3: Improved speed and convergence,” Proc. 22nd IEEE Photovoltaic Specialists Conference, Las Vegas, pp. 299–302, 1991.</p> <p>P.A. Basore, “Numerical modeling of textured silicon solar cells using PC-1D,” IEEE Transactions on Electron Devices, 37(2), pp. 337–343, 1990.</p> <p>P.A. Basore, D.T. Rover and A.W. Smith, “PC-1D Version 2: Enhanced numerical solar cell modelling,” Proc. 20th IEEE Photovoltaic Specialists Conference, Las Vegas, pp. 389–396, 1988.</p>

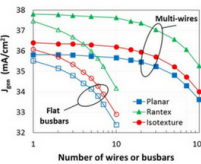
HANWHA v. MAXEON
IPR2024-01198
HANWHA 1135

D.T. Rover, P.A. Basore and G.M. Thorson, "Solar cell modelling on personal computers," Proc. 18th IEEE Photovoltaic Specialists Conference, Las Vegas, pp. 703–709, 1985.

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