

Solar Pro[®]

Photovoltaic System Simulation Software

Upgraded features of Solar Pro 4.8

Supports power generation simulation using half-cell modules. The calculated amount of solar radiation is displayed on 3D CAD or graphically, and forms and shading rates can also be calculated.



1. Half-cell module compatible

2. Improved operability

3. Added solar radiation calculation function

1. Half-cell module compatible

Supports power generation simulation using half-cell modules. In addition, half-cell solar cells can be registered in the solar cell module database.

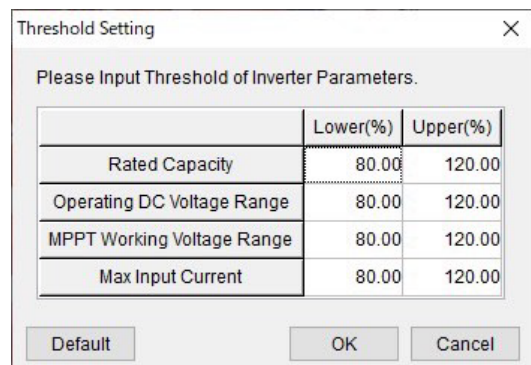


What's a half-cell module?

By cutting the cell to half the normal size, the current inside the cell is halved to reduce resistance and reduce power generation loss. You can expect more efficient power generation.

2. Improved operability

The PCS threshold setting can be saved by user setting, which saves time and labor to input when setting the electric circuit configuration.



▲ Image of threshold setting
(Product image for illustration purposes only. Actual product may vary.)

3.Added solar radiation calculation function

3D CAD tab

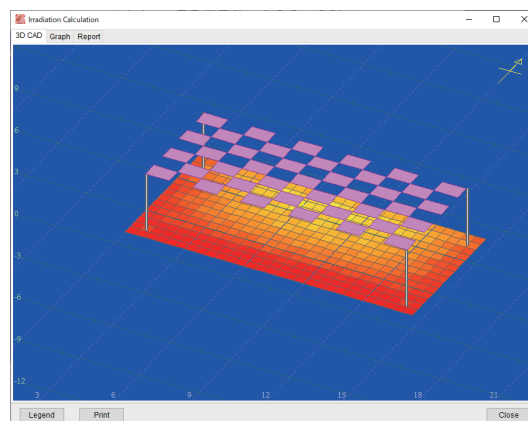
Color-coded tiles for each solar radiation dose are displayed side by side on the plot site selected in 3D CAD window. You can display a legend list for the sunlight tile in a separate window. The results are printable.

Solar radiation graph tab

Displays a graph of the calculated average solar radiation amount and horizontal solar radiation amount corresponding to the subject site area. You can also display the amount of horizontal solar radiation as "No shadow". Graphs can be printed.

Form tab

Displays the form of the average solar radiation calculation result of the target site plotted in the graph. Forms can be printed and saved in CSV format.



▲ Image of heat map
(Product image for illustration purposes only. Actual product may vary.)

Other changes Updating of photovoltaic modules and PCS databases

Specification

System Requirements	OS : Windows 10 CPU : 1GHz (clock) or above Memory : 512MB or above Hard Disk : 1GB of available space Screen Resolution : 1,366x768 or above USB Port : USB 1.1 or higher	
Meteorological Data	Built-in Data	World 1,360 places, METPV-20, etc.
	Importable Data	Actual measured data, meteorological annual data (before 7.1), SolarGIS (TMY data) NSRDB (SUNY 10-km gridded data), TMY 3 data, METPV-11, etc.
Solar Cell and Circuit Configuration	Cell Type	Mono-crystalline, Polycrystalline, Amorphous, Hybrid, HIT, CIS, CIGS
	Number of Modules	Up to 160,000 modules
	Inverter	Up to 400 inverters
	Max. Series-Parallel Module Number	Limitless within number of modules
Creatable Objects	PV Array (Up to 1,000 modules per array), House, Building, Slope, Array Area, Pyramid, Prism, Truncated Pyramid, Free Form, Tree, Polyhedron	

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