

Using SolarEdge inverters and power optimizers in PV*SOL

The SolarEdge system includes module-level DC-DC power optimizers and string inverters.

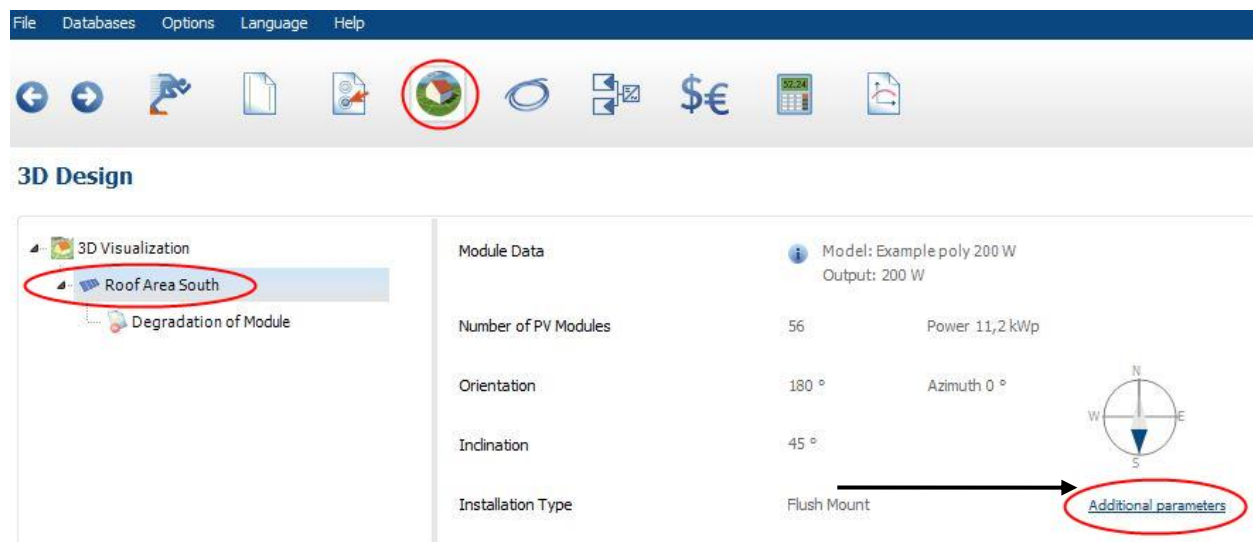
PV*SOL does not perform system design for SolarEdge inverters and power optimizers. **For string sizing and inverter and power optimizer selection use the SolarEdge Site Designer.** PV*SOL can be used for energy estimation of the design obtained from the SolarEdge Site Designer.

The SolarEdge Site Designer can be downloaded at the following link:

<http://www.solaredge.com/groups/installer-tools/site-designer>.

When entering a SolarEdge design into PV*SOL, choose the power optimizer module recommended by the SolarEdge Site Designer, and verify the quantity. SolarEdge inverters are not selected in PV*SOL, however their efficiency is taken into account when the energy estimate is calculated.

SolarEdge power optimizers perform MPPT at the module level. Therefore there are no mismatch losses in the system. **To set the mismatch loss to zero when designing a SolarEdge system with PV*SOL**, select the module area on the 3D Design page. Then click on the link Additional parameters..



File Databases Options Language Help

3D Design

3D Visualization

- Roof Area South
- Degradation of Module

Module Data	Model: Example poly 200 W Output: 200 W
Number of PV Modules	56 Power 11,2 kWp
Orientation	180 ° Azimuth 0 °
Inclination	45 °
Installation Type	Flush Mount

Additional parameters

In the window that opens, change the Output loss due to Mismatch or Reduced Yield to 0:

Simulation Parameters Roof Area South

Power Losses resulting from a Drop in Voltage at the Bypass Diodes %

Power Losses resulting from Mismatching or Reduced Yield %

Ground Reflection (Albedo)

Enter yearly albedo %

Enter monthly albedo

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%

Output losses due to soiling of the PV modules

Enter yearly losses due to soiling %

Enter monthly losses due to soiling

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%