

archelios™ CALC

Calculate, size and control your photovoltaic installations

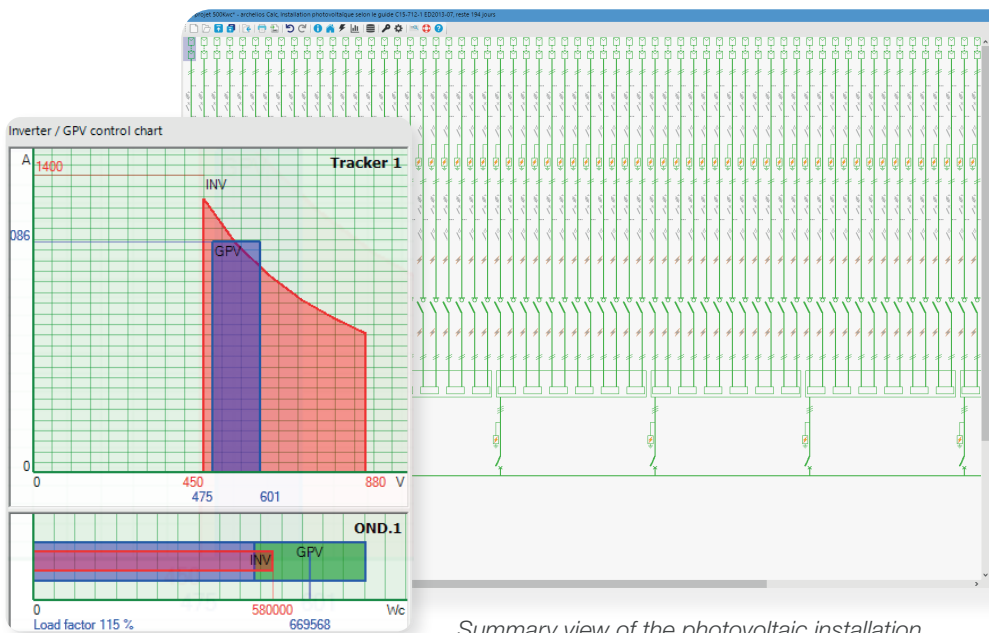
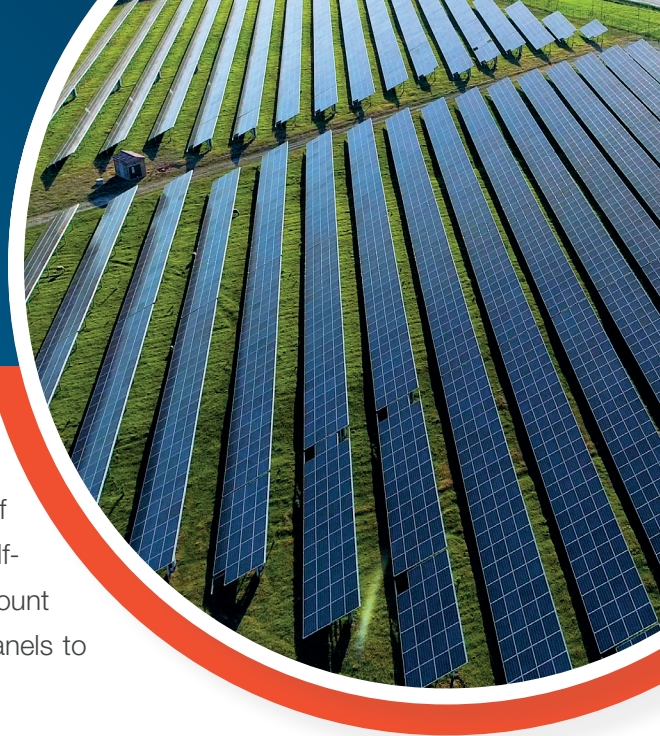
A software designed for professionals

archelios™ CALC is a complete software for the calculation of photovoltaic installations connected to the public network or in self-consumption according to the standards. The software takes into account any type of photovoltaic installation in its entirety, from photovoltaic panels to the inverters and from the inverters to the network.

archelios™ CALC presents a complete and global view of the installation from photovoltaic modules to the connection to the public network of distribution, and in self-consumption from photovoltaic modules to installations.

User interface

The software provides real-time installation calculation and control according to IEC-60364 (2002) for the guarantee of optimum security. The interface provides a synthetic view of the entire installation and enables you to access any component for editing technical data.



Summary view of the photovoltaic installation

The screenshot shows the 'Photovoltaic generator' configuration window. It includes the following settings:

- Photovoltaic generator: GPV.1
- Number of modules per optimizer:
 - In series: MS1 = 2, MS2 = 1
 - In parallel: MP1 = 1, MP2 = 1
- Number of optimizers per chain: O1 = 12, O2 = 1
- Characteristics of an optimizer:
 - Input:
 - Maximum power: Pm = 950 Wc
 - Short-circuit current: Isc = 14.1 A
 - No-load voltage: Voc = 125 V
 - Max MPPT voltage: Umpp max = 105 V
 - Min MPPT voltage: Umpp min = 12.5 V
 - Output:
 - Max Current: Is = 18 A
 - Max Voltage: Vs = 80 V
 - Maximum system voltage: Vmax = 1000 V
 - Efficiency: n = 98.6 %
- Reference: P950-4RM4MBY
- Designation: Optimiseur SolarEdge P950-4RM4MBY Serie
- Brand: SolarEdge
- Manual entry of technical data:
- Buttons: Manufacturer, User, Manual, Form

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archelios™ CALC features

Customize controls

- ➔ Integration of optimizers
- ➔ Processing of any type of PV installation including beyond 250 kVA
- ➔ Saving project settings

Electrical calculation

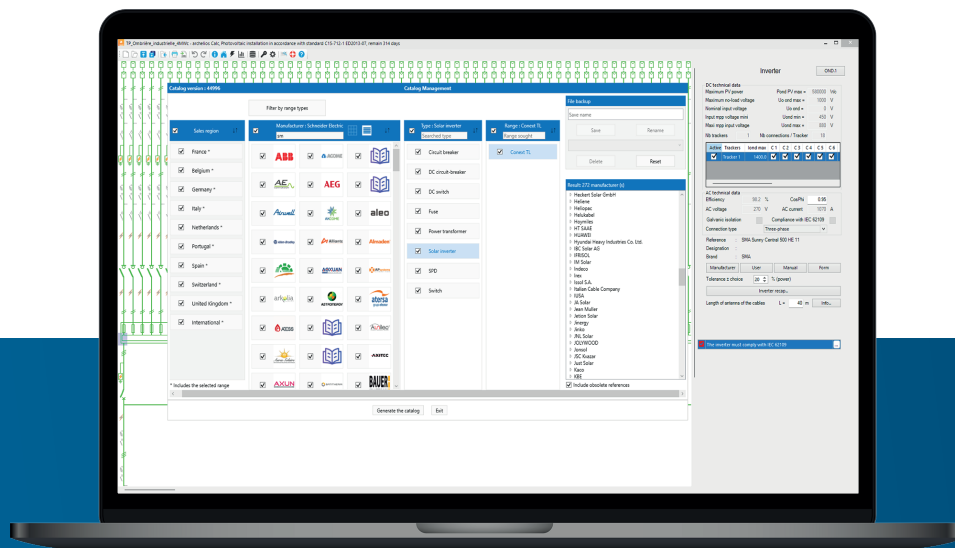
- ➔ Lightning risk analysis and consideration (*surge protector sizing*)
- ➔ Real-time calculation and multi-standards normative controls (*IEC-60364*)
- ➔ Voltage drop calculation
- ➔ Built-in or customizable multi-manufacturers database (*new interface*)
- ➔ Visual indication of non-conforming elements

Installation modeling

- ➔ Export of the project to archelios™ PRO
- ➔ Detailed synoptic from the entire installation to the distribution network or to the installation in self-consumption
- ➔ DC and AC power sizing, single or multi-inverters
- ➔ Detailed inverters management (*multi-trackers, multi-strings, built-in protections*)

Reports

- ➔ DWG or PDF export of the synoptic
- ➔ Automatic generation of calculation note in PDF format
- ➔ Editing of documents in PDF in 5 languages
- ➔ Editing of the complete regulatory file for inspection authorities



To find out more

Discover archelios™ suite

Consisting of archelios™ PRO and archelios™ CALC, archelios™ Suite enables the management of an entire photovoltaic project from the study to the installation.

PV design with archelios™ PRO

With the online app archelios™ PRO, you can size any type of photovoltaic project, from rooftop installations to large solar power plants or in self-consumption. Thanks to its versatility, archelios™ PRO will provide the feasibility and profitability study, simulation, production calculation, and complete electrical sizing.