

OPTIMIZER

For Photovoltaic Panels

POWER

600W



FEATURES

The 600W optimisers for photovoltaic panels are an advanced technological solution for improving the efficiency and energy management solar panels. These devices are designed to maximise the energy that can be extracted from each individual panel, regardless of partial shading conditions or variations in light intensity during the day.

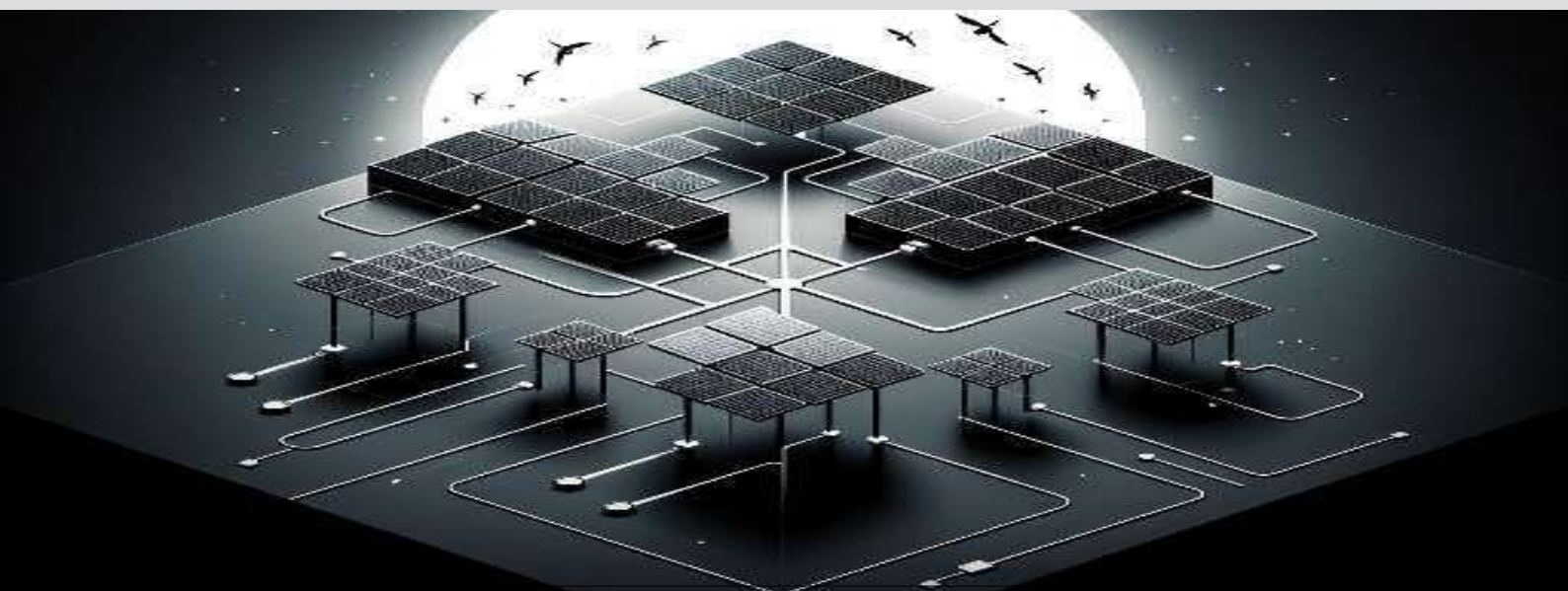
A 600W optimiser can manage the maximum power point (MPPT) for each panel individually. This means that, instead of having a single maximum power point for entire PV array, each panel can operate at its optimum efficiency point. This is particularly useful in situations where panels are installed on surfaces with different orientations or are subject to partial shading caused by trees, buildings or other obstacles.

The 600W optimisers also help to improve the safety of the photovoltaic system.

In the event of a malfunction or failure of one of the panels, the device can automatically reduce the voltage of the affected panel, limiting the risk of short circuits or fire.

From an installation perspective, power optimisers make the photovoltaic system more flexible. They can be easily integrated with new or existing solar systems and are compatible with inverters of various makes and models. This compatibility ensures that users can choose the solution best suited to their specific needs without being tied to a single technology provider.

Finally, the use of 600W optimisers allows better monitoring and management of the PV system. Many of these devices are equipped with communication systems that send real-time data on the energy output of each panel to online portal or mobile application. This allows users to quickly identify any problems or inefficiencies, thereby optimising maintenance and increasing the overall efficiency of the system.



DC INPUT	SUNGO-OPT
MAX. INPUT POWER	600W
MAX VOLTAGE	60V
MPPT VOLTAGE RANGE	7~60V
MAX. CONTINUOUS INPUT CURRENT	16A
MAX. INPUT SHORT-CIRCUIT CURRENT	18A
SELF-CONSUMPTION AT NIGHT	0W

DC OUTPUT	SUNGO-OPT
NOMINAL OUTPUT VOLTAGE	42V
MAXIMUM CONTINUOUS OUTPUT CURRENT	16A
MAXIMUM OUTPUT POWER	600W
MAXIMUM SYSTEM VOLTAGE	1500V
72-CELL MODULE IN SERIAL @1500V	36pcs
72-CELL MODULE IN SERIAL @1100V	26pcs
72-CELL MODULE IN SERIAL @1000V	24pcs

EFFICIENCY	SUNGO-OPT
MAXIMUM EFFICIENCY	99.5%
POWER LOSS @ 5 A	0.9W
POWER LOSS @ 8 A	1.4W
POWER LOSS @12A	2.9W
POWER LOSS @15A	4.5W
POWER LOSS @20A	7.2W

GENERAL DATA	SUNGO-OPT
DIMENSIONS (LXPA)	103*105.3*21.3mm
WEIGHT	0.65kg
INPUT/OUTPUT CABLE LENGTH	150/1050mm
INPUT/OUTPUT CABLE DIMENSIONS	4mm ² (12AWG) / 4mm ² (12AWG)
TERMINALS	MC4(compatible)
DEGREE OF PROTECTION	IP67
RELATIVE HUMIDITY	0~100%RH
OPERATING TEMPERATURE RANGE	-40~+6.5°C
COOLING	Natural