

Smart PV Power Optimizer



SP1-600W-AS

10 years warranty, longlife span

5~30%

Unique TinyML algorithm captures MPPT within 0.2S, improves 5~30% power output.

10%

Enable additional string connections up to 10%.

1min

Industrial-level Zigbee solutions ensures the highest data sampling frequency, capturing data every other minute, to get remote system diagnosis more

10s

Rapid shutdown within 10s in case of fire risk resulted

Applicable scenarios



Multi-orientation



Dust effect



Attenuation loss



Snow effect



Shading loss

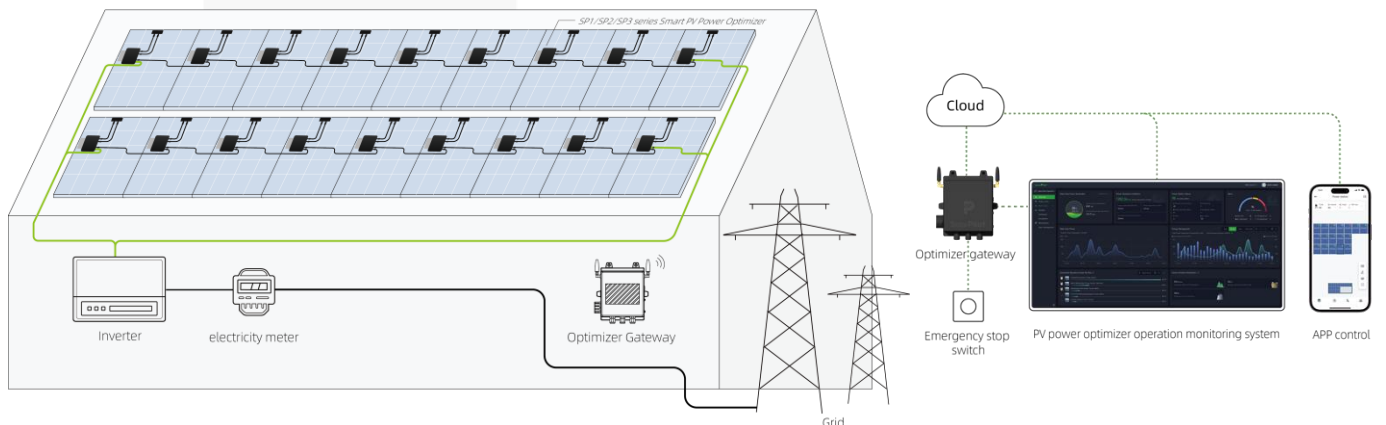


Different title Angle



Works with double-side panels

System architecture



Smart PV Power Optimizer

SP1-600W-AS specifications

| Product specification | SP1-600W-AS | |
|-----------------------|-------------------------------------|----------------------------------|
| Efficiency | Maximum efficiency | ≥99.5% |
| | European efficiency | ≥99.0% |
| | North American efficiency | ≥99.1% |
| | Chinese efficiency | ≥99.1% |
| DC input | Input maximum power | 600W |
| | Input maximum voltage | 70V |
| | Maximum input current | 15A |
| | MPPT voltage range | 10 ~ 70V |
| | Starting voltage | 15V |
| DC output | Output power | 0 ~ 600W |
| | The output voltage | 0 ~ 70V |
| | Maximum output current | 18A |
| Function | Bypass cut-off function | Have |
| | Auto shutdown function | Have |
| | Manual shutdown function | Have |
| | DC overvoltage protection | Have |
| | DC overload protection | Have |
| | Reverse polarity protection | Have |
| | Short circuit protection function | Have |
| | Wireless data acquisition function | Have |
| Detection accuracy | Voltage | 0.01V |
| | Electric current | 0.01A |
| General parameters | Size | 95mm*129mm*56mm |
| | Net weight | ≤1000g |
| | Degree of protection | IP68 |
| | System voltage | 1100V |
| | Data collection frequency | 1minute |
| | Wireless data transmission distance | ≤100m (outdoor) ≤30m (indoor) |
| | Connect the terminals | MC4 |
| | Input DC line length | ≥0.12m |
| | Output DC cable length | ≥1.3m |
| | Operating temperature | -45°C ~ 85°C |
| | Storage temperature | -40°C ~ 70°C |
| | Working humidity | 0% ~ 100% |

| | |
|---------------------|--|
| Working altitude | 2000m |
| Power supply | DC power supply |
| Off time | 10s |
| Installation method | Fixing bracket/fixing photovoltaic panel frame |

Certificates



It can be sold in Germany, Australia, China and other countries and regions.

Related Software



SolarPilot Energy APP

Method 1 : Download from APP Store & Google Play.

iPhone mobile phone users: search for "SolarPilot Energy" in the App Store.

Other mobile phone users: search for "SolarPilot Energy" in the application market.

Method 2: Download by scanning below QR code.



Android



IOS

