

## SolarEdge-S1200-1G M4MBV

Product code: **OP.Solaredge.S1200-1G.M4M.BV**



Manufacturer	<b>SOLAREEDGE</b>
CN code number	<b>85044095</b>
Country of origin	<b>Israel</b>
Width	<b>129</b>
Height	<b>165</b>
Depth	<b>59</b>
Quantity per pallet	<b>420</b>
MPPT	<b>2</b>
Weight	<b>1106</b>
Warranty	<b>25</b>
Power	<b>1200</b>

The SolarEdge S1200-1G M4M BV power optimizers are DC-DC devices connected directly to photovoltaic modules to maximize the energy obtained through independent tracking of the maximum power point (MPPT). They effectively regulate the voltage of the chain independently of its length or environmental conditions. They have a safe voltage function, automatically reducing the voltage to 1 V DC in case of failure, disconnection from the inverter, or inverter shutdown. The optimizers transmit information about the module's operation to the inverter through a DC power cable. There are two types available: an additional power optimizer connected to one or more modules and intelligent modules with built-in optimizers. In the S series, the connection scheme has been improved, where the positive connector cable is long, and the negative one is short, eliminating loose hanging of the connector from the roof and reducing moisture impact.

## Product variants

Index	Price
<b>SolarEdge-S1200-1G M4MBV</b> <b>OP.Solaredge.S1200-1G.M4M.BV</b>	Product prices only visible after login. If you do not have an account, please register.

## Product description

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Advantages of the SolarEdge S1200-1G M4M BV optimizer:

**High energy efficiency:** Excellent efficiency (99.5%) is achieved through continuous monitoring of the maximum power point (MPPT) at the level of a single module, resulting in maximum energy production in the system, increased revenue, and a quick return on investment. Support for bifacial photovoltaic modules and modules with high power and chain intensity ensures a greater amount of generated energy for the entire chain, translating into additional benefits.

**Maximum protection with built-in safeguards:** Designed to automatically lower high direct current voltage to safe levels after network/inverter shutdown using SafeDC™ technology. Equipped with the innovative SolarEdge Sense Connect feature for continuous monitoring, detection of overheating related to installation issues, or connector wear.

**Lower system balancing costs:** The flexible system allows for maximum use of space and handling of longer chains, reducing the amount of wiring, fuses, and boxes by 50%. Additionally, the system allows for easy cable management and quick installation when connecting two photovoltaic modules in series.

**Simplified operation and maintenance:** Monitoring the system at the level of a single module allows for precise detection of faults and remote issue resolution, resulting in effective time savings.

Technical specifications of the SolarEdge S1200-1G M4M BV power optimizer:

Nominal DC input power: 1200W

Absolute maximum input voltage (Voc): 125 Vdc

MPPT working range: 12.5 – 105 Vdc

Maximum short-circuit current (Isc): 15 Adc

Maximum efficiency: 99.5%

Weighted efficiency: 98.8%

Overvoltage category: II

Maximum output current: 20 Adc

Maximum output voltage: 80 Adc

Safe optimizer voltage: 1 Vdc

Maximum permissible system voltage: 1000 Vdc

Dimensions (width x length x height): 129 x 165 x 59 mm

Weight (including cables): 1106 g

Protection rating: IP68/NEMA6P

The SolarEdge S1200-1G M4M BV power optimizer comes with a 25-year warranty, starting after either of two events: (i) four months from the date of dispatch of the power optimizers by SolarEdge; or (ii) after the installation of the power optimizers. This extended warranty provides protection and assurance of the product's durability and reliability over an extended period of operation.