

## SolarEdge-S1000-1G MXMBT

Product code: **OP.Solaredge.S1000.MXMBT**



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>52</b>
Quantity per pallet	<b>420</b>
MPPT	<b>2</b>
Weight	<b>1064</b>
Warranty	<b>25</b>
Power	<b>1000</b>

SolarEdge S1000-1G MXM BT power optimizers are DC-DC devices directly connected to photovoltaic modules to maximize energy output through independent maximum power point tracking (MPPT). They effectively regulate the string voltage independently of its length or environmental conditions. They have a safe voltage feature, automatically reducing the voltage to 1 V DC in case of a malfunction, disconnection from the inverter, or when the inverter is turned off. The optimizers transmit information about module operation to the inverter using a DC power cable. There are two types available: an additional power optimizer connected to one or several modules, and intelligent modules with built-in optimizers. In the S series, the connection system 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-S1000-1G MXMBT</b> <b>OP.Solaredge.S1000.MXMBT</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 S1000-1G MXM BT optimizer:

**High energy efficiency:** Excellent efficiency (99.5%) achieved through continuous monitoring of the maximum power point (MPPT) at the level of a single module, translating into maximum energy production in the system, increased revenues, and a fast return on investment. It supports bifacial photovoltaic modules as well as high-power modules and high chain current density, ensuring a greater amount of energy generated throughout the chain, resulting in additional benefits.

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

**Lower system balancing costs:** The flexible system allows for maximum space utilization and handling of longer chains, reducing the amount of wiring, fuses, and junction 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:** System monitoring at the level of a single module, allowing precise fault detection and remote issue resolution, resulting in efficient time savings.

Technical specifications of the SolarEdge S1000-1G MXM BT power optimizer:

Nominal DC input power: 1000W

Absolute maximum input voltage (Voc): 125 Vdc

MPPT operating 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: 18 Adc

Maximum output voltage: 80 Adc

Optimizer safe voltage: 1 Vdc

Maximum allowable system voltage: 1000 Vdc

Dimensions (width x length x height): 129 x 165 x 52

Weight (including cables): 1064 g

Protection rating: IP68/NEMA6P

The SolarEdge S1000-1G MXM BT power optimizer comes with a 25-year warranty, starting after the earlier of two events: (i) 4 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 confidence in the durability and reliability of the product for an extended period of operation.