

## SolarEdge S500B-1G M4MRM (cabels +2,3m, -0,10m)

Product code: **OP.Solaredge.S500B-1G.M4M.RM**



Od ilości:

≥ 420 pcs.

Product prices only visible after login. If you do not have an account, please register.

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>45</b>
Quantity per pallet	<b>840</b>
MPPT	<b>1</b>
Weight	<b>790</b>
Warranty	<b>25</b>
Power	<b>500</b>

Power optimizers from SolarEdge, the S500B-1G M4M RM model (cable 0.1m/2.3m), are DC-DC devices designed to be directly connected to photovoltaic modules to maximize energy harvesting. They achieve this through independent maximum power point tracking (MPPT) at the individual module level. These devices effectively regulate the chain voltage, regardless of the chain length or environmental conditions. Additionally, power optimizers have a safe voltage feature, automatically reducing the output voltage of each of them to 1 V DC in case of a failure, disconnection from the inverter, or when the inverter switch is in the off position. Each optimizer also transmits information about the module's operation to the inverter through the DC power cable. There are two types of power optimizers available: an additional power optimizer that can be connected to one or several modules, and intelligent modules in which power optimizers are built directly into the module.

## Product variants

Index	Price
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## Product description

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Advantages of the SolarEdge S500B-1G M4M RM Power Optimizer (cable 0.1m/2.3m):

- Specifically designed to work with SolarEdge inverters for residential buildings
- Voltage shutdown at the module level for installer and emergency services safety
- Highest efficiency (99.5%)
- Quick installation with a single screw
- Reduces all losses resulting from module inhomogeneity, from production tolerances to partial shading
- Flexible system design for maximum space utilization
- Compatibility with bifacial modules

Technical specifications of the SolarEdge S500B-1G M4M RM Power Optimizer (cable 0.1m/2.3m):

- Nominal DC input power (1): 500W
- 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: 98.6%
- Overvoltage category II
- Maximum output current: 15 Adc
- Maximum output voltage: 80 Vdc
- Maximum permissible system voltage: 1000 Vdc
- Dimensions (width x length x height): 129 x 165 x 45 mm
- Weight: 790 g
- Input connector: MC4
- Ingress protection rating: IP68

The SolarEdge S500B-1G M4M RM Power Optimizer (cable 0.1m/2.3m) comes with a 25-year warranty, which begins after the occurrence of 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 assurance of the product's durability and reliability over an extended period of operation.