SolarEdge S500-1G M4MRM (cabels +2,3m, -0,10m)

Product code: **OP.Solaredge.S500-1G.M4M.RM**

Od ilości:	
≥ 840 pcs.	Product prices only visible after login. If you do not have an account, please register.

Manufacturer	SOLAREDGE
CN code number	85044095
Country of origin	Israel
Width	129
Height	155
Depth	30
Quantity per pallet	840
MPPT	1
Weight	720
Warranty	25
Power	500

The power optimizers from Solaredge, the S500-1G M4M RM model (cables +2.3m, -0.10m), 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, the power optimizers have a safe voltage feature, automatically reducing the output voltage of each of them to 1 V DC in case of a fault, 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: additional power optimizer, which can be connected to one or several modules, and intelligent modules, where 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 S500-1G M4M RM power optimizer (cables +2.3m, -0.10m):

Specifically designed to work with SolarEdge inverters for residential buildings
Voltage shutdown at the module level for the safety of the installer and emergency services
Highest efficiency (99.5%)
Quick installation with a single screw
Limits all losses resulting from module inhomogeneity, from production tolerance to partial shading
Flexible system design for maximum space utilization
Compatibility with bifacial modules
Technical specifications of the Solaredge S500-1G M4M RM power optimizer (cables +2.3m, -0.10m):

Rated DC input power (1): 500W
Absolute maximum input voltage (Voc): 60 Vdc
MPPT operating range: 8 – 60 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: 60 Vdc
Maximum permissible system voltage: 1000 Vdc
Dimensions (width x length x height): 129 x 155 x 30 mm
Weight: 720 g
Input connector: MC4
Protection class IP68
The Solaredge S500-1G M4M RM power optimizer (cables +2.3m, -0.10m) 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) installation of the power optimizers. This extended warranty ensures protection and confidence in the durability and reliability of the product over an extended period of use.