

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

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



Manufacturer	SOLAREEDGE
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
SolarEdge S500-1G M4MRM (cabels +2,3m, -0,10m) OP.Solaredge.S500-1G.M4M.RM	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 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.