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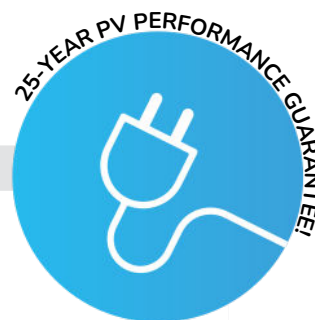
DATA SHEET **SOLMATE®**

25-YEAR PV PERFORMANCE GUARANTEE!

THIS IS SOL**MATE®**

The first plug-in photovoltaic and storage system for self-installation. Sol**Mate®** consists of the storage unit and at least two standard panels that you can mount at home with various accessories.

For installing the solar panels of your Sol**Mate®**, you can choose from three different options: **mounting on the ground / flat roof, on the wall / fence, on the balcony railing, or on the sloped roof.** First, you should select the suitable location. The panels should be exposed to direct sunlight. Make sure that your Sol**Mate®** can soak up as much sun as possible during the day—this way, it generates the most green energy! With this user-friendly system, you can create the ideal conditions for independent electricity generation all year round, make a positive impact on the environment, and save on costs. What makes Sol**Mate®** unique is the proprietary measurement technology, **NetDetection**. This detects if you are currently using electricity. Thanks to this measurement technology, your Sol**Mate®** is smart enough to only provide power when you're consuming it somewhere in your home—the rest is stored in the battery. This solution ensures that your precious solar power is 100% self-consumed. Sol**Mate®** - Bringing sunshine into your home.

TECHNICAL **DATA**

DATA **STORAGE UNIT**

Capacity	1.44 kWh
Cell Chemistry	LiFePO4
Battery Nominal Voltage	48 V
Lifespan	80% capacity after 4000 cycles
Charge / Discharge Temperature	-20 to 50 °C
Optimal Operating Temperature	5 to 30 °C
Dimensions (HxWxD)	730x498x100 mm
Weight	28 kg

AC **DATA**

Power (grid operation)	800 W
Power (island operation)	~230 V +/-10% 50 Hz 1000 W
Power (island operation) S-Power*	2000 W Max.
Schuko socket	~230 V 16 A

DC **DATA**

Total PV panel power	2000 W
PV input 1	10-44 V 20 A max.*
PV input 2	10-44 V 20 A max.*
USB-C output	5 V, 500 mA

CE **STORAGE UNIT**

IEC EN 62477-1: 2012 +A11:2015 +A12:2021
IEC 62109-1:2010
IEC 62109-2:2011
IEC 62133-2:2018
UN 38.3 (Ed.7.0): 2021
VDE-AR-N 4105:2018-11
DIN VDE V 0124-100:2020-06
TOR TYP A:2019-08 / R25:2020-03
EN 50549-1:2019 +AC :2019
CEI 0-21:2019-04

DATA MAYSUN SOLAR MS (420-435) MDG-54H*
QUANTITY: 2/3/4 STANDARD PANELS (860-1720 Wp)

Power	min. 430 Wp
Length	1722 mm
Width	1134 mm
Thickness	30 mm
Weight	24 kg
Glass	2 mm, tempered glass with high transmission
Frame	30 mm, black anodized aluminum
Application range	-40 to +85 °C
Snow load / Wind load	5400 Pa / 2400 Pa
Surface	bifacial
Cell type	mono
Number of cells	108
OCV voltage	36.6 V
MPP voltage	29.6 V
Technology	mono
Efficiency	max. 22.28 %
Short-circuit current	11.49 A
MPP current	10.91 A

CE **MAYSUN PANEL**

IEC 61215	**IEC 61701**
IEC 61730	**IEC 62716**
UL 1703	**ISO 9001**

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*Only in grid operation with the power plug inserted.

*The values listed here may vary slightly. Exact values for your panel can be found on our website. **www.eet.energy/en/documents**