



High-Tech
German Quality



Biggest Production
Capacity in Türkiye

MBB (Multi Busbar) - Half Cut Solar Module SPE 495 ~ SPE 500

Durability Against Extreme Environmental Conditions
Long-Term High Performance Guarantee
Positive Power Tolerance
Maximum Efficiency with M10 (182mm) Half-Cut Cells
100% Customer Satisfaction
Anti-PID Technology

15

15 Years Product Warranty

25

25 Years Linear
Performance Guarantee

 Produced by
**Solar Green
Energy**

Electrical Characteristics (STC)

Model		SPE 495	SPE 500
Maximum Power	P _{max}	495 Wp	500 Wp
Maximum Power Voltage	V _{mpp}	38.32 V	38.46 V
Maximum Power Current	I _{mpp}	12.92 A	13.01 A
Open Circuit Voltage	V _{oc}	45.38 V	45.52 V
Open Circuit Current	I _{sc}	13.73 A	13.80 A
Module Efficiency	η _m	20.7 %	20.9 %
Positive Power Tolerance		~ +5W	

Standard Test Conditions (STC): Irradiance 1000W/m², AM 1.5, Cell Temperature 25°C
Measurement tolerance ± %3

Electrical Characteristics (NOCT)

Model		SPE 495	SPE 500
Maximum Power	P _{max}	373 Wp	377 Wp
Maximum Power Voltage	V _{mpp}	35.60 V	35.80 V
Maximum Power Current	I _{mpp}	10.49 A	10.55 A
Open Circuit Voltage	V _{oc}	42.60 V	42.80 V
Short Circuit Current	I _{sc}	11.07 A	11.13 A

Nominal Operating Celi Temperature (NOCT): Irradiance 800 W/m², AM 1.5, Wind Speed 1m/s

System Design

Maximum System Voltage	1500V DC
Operating Temperature	-40°C — +85°C
Maximum Series Fuse Rating	25 A
Static Load	2400 Pa (Wind), 5400Pa (Snow)*
Safety Class	II
Fire Class	UL Type 1

* Only mounted with adherence to prescribed techniques

Thermal Characteristics

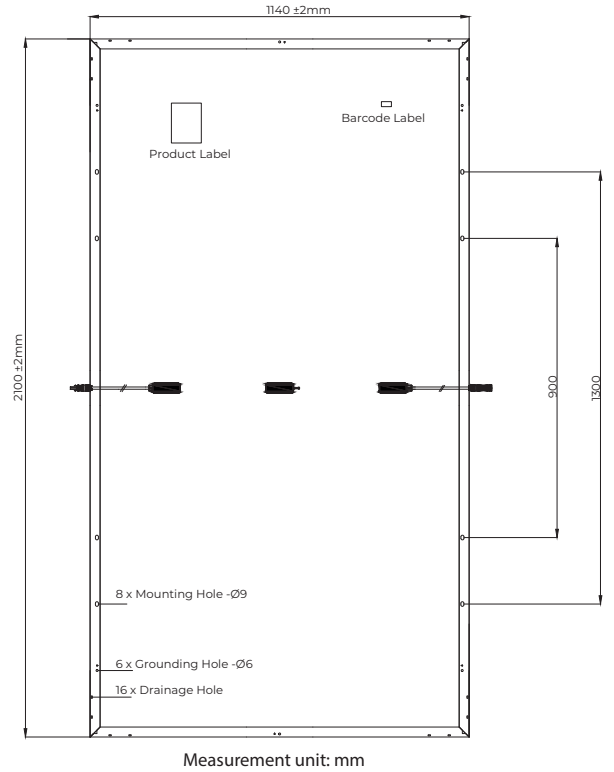
NOCT	45 ±2	°C
Temperature Coefficient P _{mpp}	-0.341	% / °C
Temperature Coefficient I _{sc}	+0.045	% / °C
Temperature Coefficient V _{oc}	-0.269	% / °C

Mechanical Characteristics

Dimensions	2100mm x 1140mm x 35mm
Cell Type	Monocrystalline PERC M10
Cells Per Module	132 Half-Cell
Weight	26kg ±1kg
Front Glass	3.2mm high transmission and tempered glass with low iron content
Frame	Anodized Aluminum alloy
J-Box	Protection Class IP68 (3 bypass diode)
Cable	4 mm ² solar cable, Length: 400mm (+), 300mm (-) **

** Cable length can be customized according to the customer request.

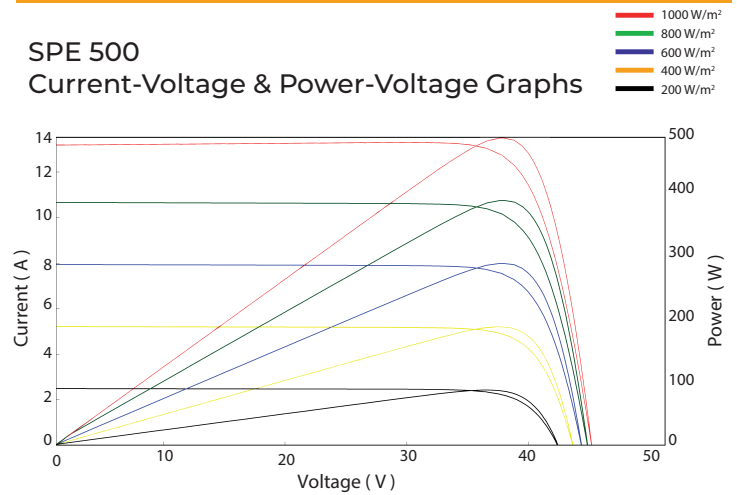
Technical Module Drawing



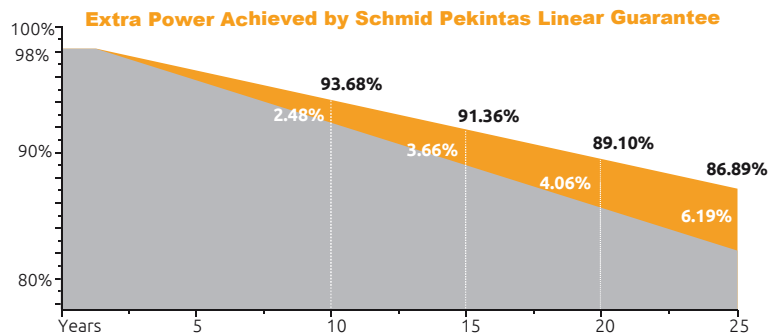
Temperature Dependence & Electrical Performance

SPE 500

Current-Voltage & Power-Voltage Graphs



Warranty Period



The information contained in this datasheet may deviate due to the ongoing innovation and product development processes. Schmid Pekintas reserves the right to make changes in the information described herein



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