

SCHMID | **PEKINTAŞ**
ENERGY®



High-Tech
German Quality



Biggest Production
Capacity in Turkiye

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

- Durability Against Extreme Enviromental 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**

PEKINTAŞ GROUP



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 Cell 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

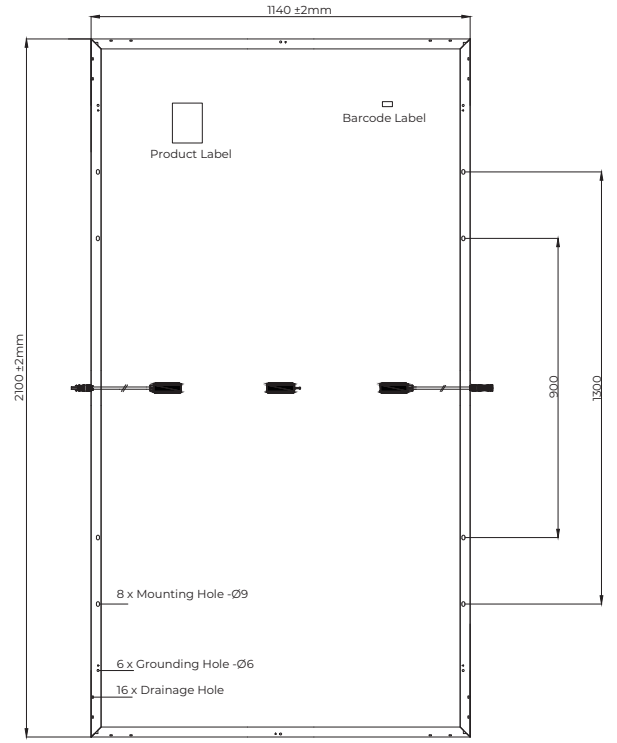
NOCT	45 ± 2	°C
Temperature Coefficient P _{mpp}	-0.341	% / °C
Temperature Coefficient I _{sc}	+0.045	% / °C
Temperature Coefficient V _{oc}	-0.269	% / °C

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 (-) / Length 1400mm (+), 1200 mm (-)*

* Cable length may differ based on the installation method

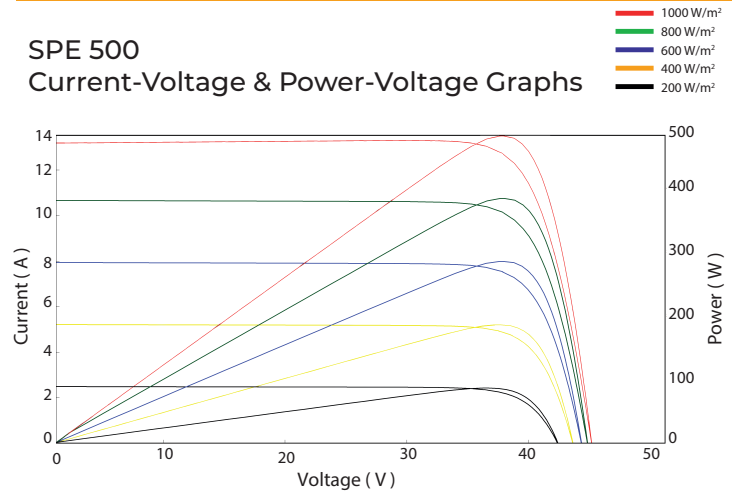
Technical Module Drawing



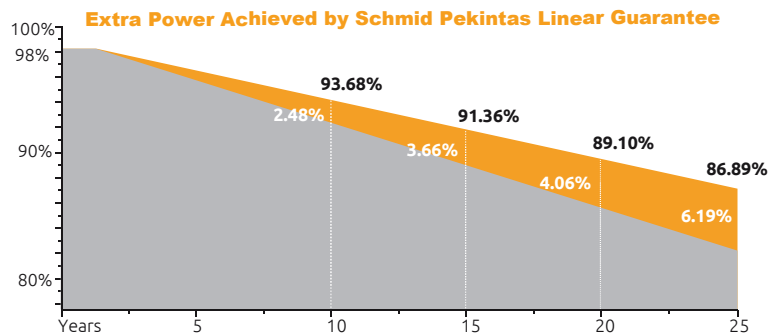
Measurement unit: mm

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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