

SCHMID | PEKINTAŞ
ENERGY®



High-Tech
German Quality



Biggest Production
Capacity in Türkiye

MBB (Multi Busbar) - Half Cut Bifacial Solar Module

SPE 545 ~ SPE 550

Durability Against Extreme Environmental Conditions

Long-Term High Performance Guarantee

Positive Power Tolerance

Higher Bifacial Benefits

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 545	SPE 550
Maximum Power	P _{max}	545 Wp	550 Wp
Maximum Power Voltage	V _{mpp}	41.96 V	42.15 V
Maximum Power Current	I _{mp}	13.01 A	13.07 A
Open Circuit Voltage	V _{oc}	49.66 V	49.74 V
Short Circuit Current	I _{sc}	13.80 A	13.86 A
Module Efficiency	η _m	21.1 %	21.3 %
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 545	SPE 550
Maximum Power	P _{max}	410 Wp	413 Wp
Maximum Power Voltage	V _{mpp}	38.90 V	39.00 V
Maximum Power Current	I _{mp}	10.55 A	10.60 A
Open Circuit Voltage	V _{oc}	46.70 V	46.80 V
Short Circuit Current	I _{sc}	11.13 A	11.18 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	30 A
Static Load	2400 Pa (Wind), 5400Pa (Snow)*
Safety Class	II
Fire Class	UL Type 1
Bifacial Rate**	%70±10

* Only mounted with adherence to prescribed techniques

** [P_{max} (backsurface) / P_{max} (frontsurface)] x 100

Thermal Characteristics

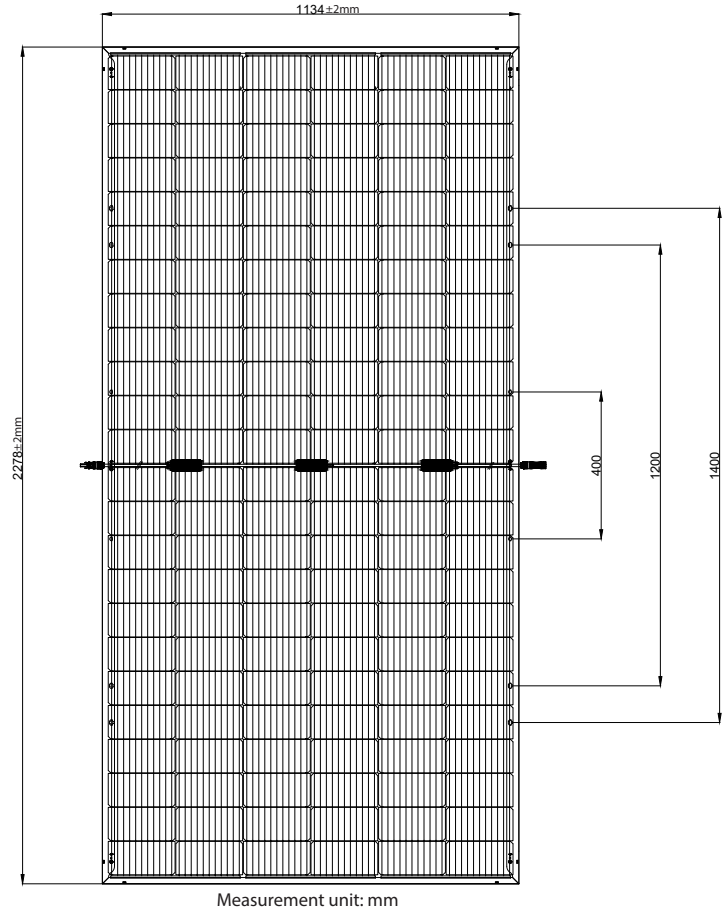
NOCT	45 ±2 °C
Temperature Coefficient P _{mp}	-0.341 % / °C
Temperature Coefficient I _{sc}	+0.045 % / °C
Temperature Coefficient V _{oc}	-0.269 % / °C

Mechanical Characteristics

Dimension	2278mm x 1134mm x 35mm
Cell Type	Monocrystalline PERC M10
Cells Per Module	144 Half-Cell
Weight	28kg ±1kg
Front Glass	3.2mm high transmission and tempered glass with low iron content
Frame	Anodized Aluminum alloy
Junction 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.

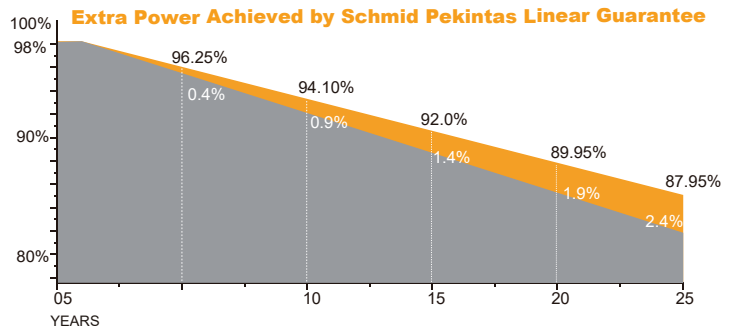
Technical Module Drawing



Bifacial Rearside Power Gain

Gain	Module Type	SPE 545	SPE 550
5 %	Maximum Power (P _{max})	572 Wp	578 Wp
	Module Efficiency at STC (%)	22.1	22.4
15 %	Maximum Power (P _{max})	627 Wp	633 Wp
	Module Efficiency at STC (%)	24.3	24.5
25 %	Maximum Power (P _{max})	681 Wp	688 Wp
	Module Efficiency at STC (%)	26.4	26.6

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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