

SCHMID | **PEKINTAŞ**
ENERGY®



High-Tech
German Quality



Biggest Production
Capacity in Turkiye

TOPCon – Half Cut Bifacial Module with Dual Glass

SPE 575 ~ 580 ~ 585

- Durability Against Extreme Enviromental Conditions
- Long-Term High Performance Guarantee
- Positive Power Tolerance
- Higher Bifacial Benefits
- 100% Customer Satisfaction
- Anti-PID Technology

15 15 Years Product Warranty

30 30 Years Linear
Performance Guarantee



Produced by
**Solar Green
Energy**

PEKINTAŞ GROUP



Electrical Characteristics (STC)

Model	SPE 575 BF	SPE 580 BF	SPE 585 BF
Maximum Power	P _{max} 575 Wp	580 Wp	585 Wp
Maximum Power Voltage	V _{mpp} 43.14 V	43.27 V	43.36 V
Maximum Power Current	I _{mp} 13.34 A	13.42 A	13.50 A
Open Circuit Voltage	V _{oc} 51.56 V	51.66 V	51.77 V
Short Circuit Current	I _{sc} 14.02 A	14.11 A	14.19 A
Module Efficiency	η _m 22.3 %	22.5 %	22.6 %
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 575 BF	SPE 580 BF	SPE 585 BF
Maximum Power	P _{max} 437 Wp	441 Wp	444 Wp
Maximum Power Voltage	V _{mpp} 40.80 V	40.80 V	40.91 V
Maximum Power Current	I _{mp} 10.71 A	10.79 A	10.86 A
Open Circuit Voltage	V _{oc} 48.90 V	48.93 V	49.10 V
Short Circuit Current	I _{sc} 11.31 A	11.38 A	11.44 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	30 A
Static Load	2400 Pa (Wind), 5400Pa (Snow)*
Safety Class	II
Fire Class	UL Type 1
Bifacial Rate**	80±5%

* Only mounted with adherence to prescribed techniques

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

Thermal Characteristics

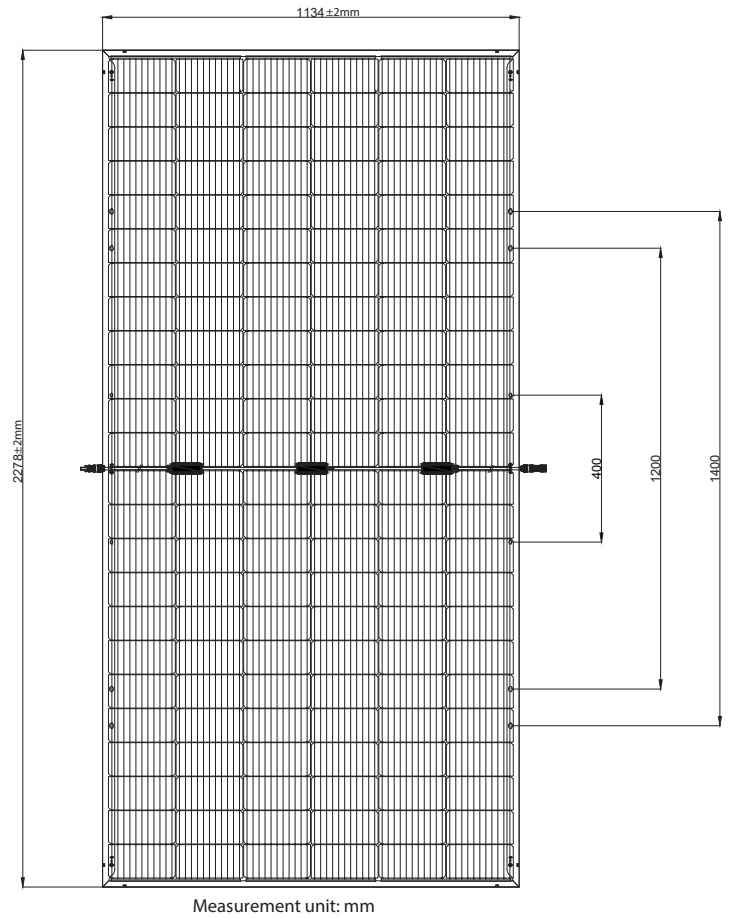
NOCT	45 ±2 °C
Temperature Coefficient P_{mp}	-0.290 % / °C
Temperature Coefficient I_{sc}	+0.045 % / °C
Temperature Coefficient V_{oc}	-0.250 % / °C

Mechanical Characteristics

Dimension	2278mm x 1134mm x 35mm
Cell Type	TOPCon M10
Cells Per Module	144 Half-Cell
Weight	31 kg ±1kg
Front / Rear Glass	2 mm 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 (-) / Length 1500mm (+), 1300 mm (-)*

* Cable length may differ based on the installation method

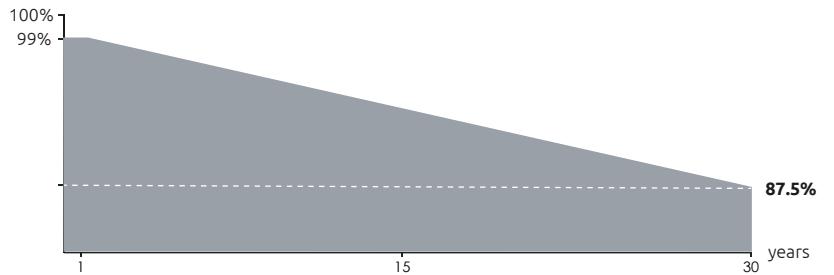
Technical Module Drawing



Bifacial Rearside Power Gain

Gain	Module Type	SPE 575 BF	SPE 580 BF	SPE 585 BF
5 %	Maximum Power (P _{max})	604 Wp	609 Wp	614 Wp
	Module Efficiency at STC (%)	23.4	23.6	23.8
15 %	Maximum Power (P _{max})	661 Wp	667 Wp	673 Wp
	Module Efficiency at STC (%)	25.6	25.8	26.1
25 %	Maximum Power (P _{max})	719 Wp	725 Wp	731 Wp
	Module Efficiency at STC (%)	27.8	28.1	28.3

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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