



High-Tech
German Quality



Biggest Production
Capacity in Türkiye

TOPCon – Half Cut Bifacial Module with Dual Glass

SPE 575 ~ 580 ~ 585

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

30

30 Years Linear
Performance Guarantee

Produced by
**Solar Green
Energy**

PEKINTAS GROUP



Electrical Characteristics (STC)

Model	SPE 575 BF		SPE 580 BF		SPE 585 BF	
Maximum Power	P _{max}	575 Wp	580 Wp	585 Wp	585 Wp	585 Wp
Maximum Power Voltage	V _{mpp}	43.14 V	43.27 V	43.36 V	43.36 V	43.36 V
Maximum Power Current	I _{mp}	13.34 A	13.42 A	13.50 A	13.50 A	13.50 A
Open Circuit Voltage	V _{oc}	51.56 V	51.66 V	51.77 V	51.77 V	51.77 V
Short Circuit Current	I _{sc}	14.02 A	14.11 A	14.19 A	14.19 A	14.19 A
Module Efficiency η_m		22.3 %	22.5 %	22.6 %	22.6 %	22.6 %
Positive Power Tolerance		~ +5W				

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

Electrical Characteristics (NOCT)

Model	SPE 575 BF		SPE 580 BF		SPE 585 BF	
Maximum Power	P _{max}	437 Wp	441 Wp	444 Wp	444 Wp	444 Wp
Maximum Power Voltage	V _{mpp}	40.80 V	40.80 V	40.91 V	40.91 V	40.91 V
Maximum Power Current	I _{mp}	10.71 A	10.79 A	10.86 A	10.86 A	10.86 A
Open Circuit Voltage	V _{oc}	48.90 V	48.93 V	49.10 V	49.10 V	49.10 V
Short Circuit Current	I _{sc}	11.31 A	11.38 A	11.44 A	11.44 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 $\pm$ 5%

* Only mounted with adherence to prescribed techniques

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

Thermal Characteristics

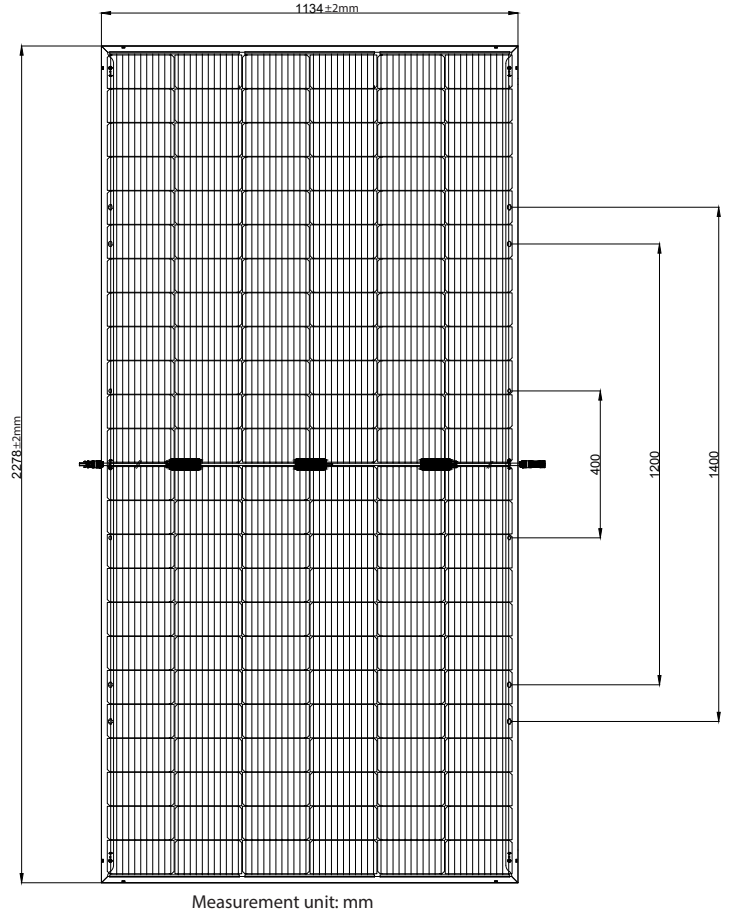
NOCT	45 $\pm$ 2 °C
Temperature Coefficient P _{mp}	-0.290 % / °C
Temperature Coefficient I _{sc}	+0.045 % / °C
Temperature Coefficient V _{oc}	-0.250 % / °C

Mechanical Characteristics

Dimension	2278mm x 1134mm x 35mm
Cell Type	TOPCon M10
Cells Per Module	144 Half-Cell
Weight	31 kg $\pm$ 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 (-) **

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

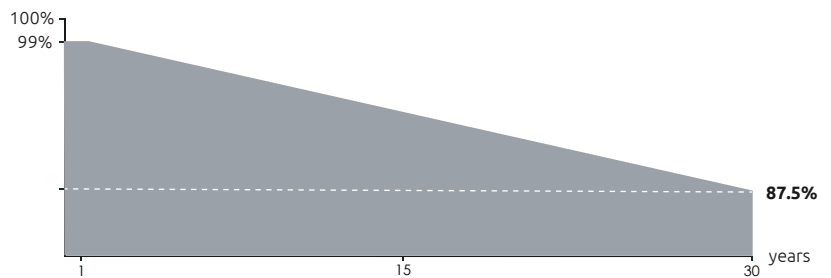
Technical Module Drawing



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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