

SCHMIDT | **PEKINTAŞ**
E N E R G Y



High-Tech
German Quality



Biggest Production
Capacity in Turkiye

TOPCon – Half Cut Bifacial Module with Dual Glass

SPE 580 ~ 585 ~ 590

- 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 580 BF	SPE 585 BF	SPE 590 BF
Maximum Power	P _{max}	580 Wp	585 Wp	590 Wp
Maximum Power Voltage	V _{mpp}	43.27 V	43.36 V	43.46 V
Maximum Power Current	I _{mpp}	13.42 A	13.50 A	13.58 A
Open Circuit Voltage	V _{oc}	51.66 V	51.77 V	51.88 V
Short Circuit Current	I _{sc}	14.11 A	14.19 A	14.27 A
Module Efficiency η_m		22.5 %	22.6 %	22.8 %
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 580 BF	SPE 585 BF	SPE 590 BF
Maximum Power	P _{max}	441 Wp	444 Wp	447 Wp
Maximum Power Voltage	V _{mpp}	40.80 V	40.91 V	41.02 V
Maximum Power Current	I _{mpp}	10.79 A	10.86 A	10.90 A
Open Circuit Voltage	V _{oc}	48.93 V	49.10 V	49.21 V
Short Circuit Current	I _{sc}	11.38 A	11.44 A	11.51 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 I
Bifacial Rate**	80 \pm 5%

* Only mounted with adherence to prescribed techniques

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

Thermal Characteristics

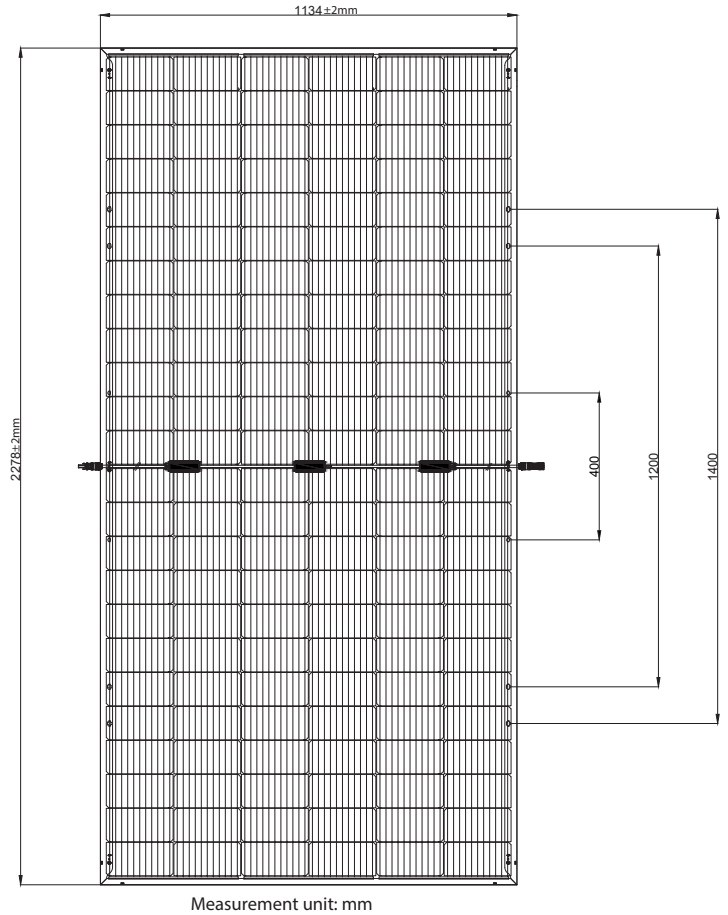
NOCT	45 \pm 2 °C
Temperature Coefficient P _{mpp}	-0.290 %/°C
Temperature Coefficient I _{sc}	+0.045 %/°C
Temperature Coefficient V _{oc}	-0.250 %/°C

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 lenght may differ based on the installation method

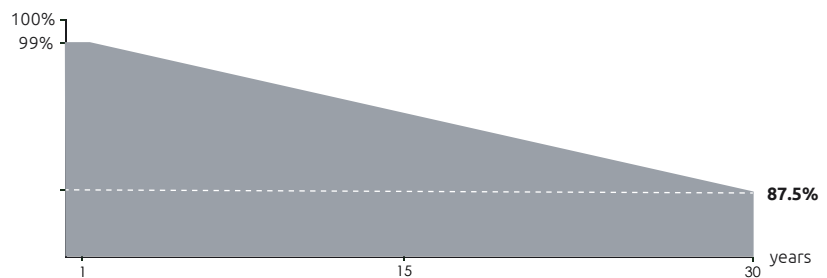
Technical Module Drawing



Bifacial Rearside Power Gain

Gain	Module Type	SPE 580 BF	SPE 585 BF	SPE 590 BF
5 %	Maximum Power (P _{max})	609 Wp	614 Wp	620 Wp
	Module Efficiency at STC (%)	23.6	23.8	24
15 %	Maximum Power (P _{max})	667 Wp	673 Wp	679 Wp
	Module Efficiency at STC (%)	25.8	26.1	26.3
25 %	Maximum Power (P _{max})	725 Wp	731 Wp	738 Wp
	Module Efficiency at STC (%)	28.1	28.3	28.6

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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