

SPE 620W | 625W | 630W

TOPCon – Half Cut Bifacial Module with Dual Glass – 16BB

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

 Leed Gold Certificate

 Produced by
**Solar Green
Energy**

Electrical Characteristics (STC)

Model	SPE620-132GGT	SPE625-132GGT	SPE630-132GGT
Maximum Power	P _{max} 620 Wp	625 Wp	630 Wp
Maximum Power Voltage	V _{mpp} 40.97 V	41.18 V	41.39 V
Maximum Power Current	I _{mp} 15.14 A	15.18 A	15.23 A
Open Circuit Voltage	V _{oc} 48.81 V	49.02 V	49.27 V
Short Circuit Current	I _{sc} 16.04 A	16.10 A	16.15 A
Module Efficiency η_m	22.96 %	23.15 %	23.33 %
Positive Power Tolerance	~ +5W		

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

Electrical Characteristics (NMOT)

Model	SPE620-132GGT	SPE625-132GGT	SPE630-132GGT
Maximum Power	P _{max} 471.0 Wp	474.7 Wp	478.7 Wp
Maximum Power Voltage	V _{mpp} 38.51 V	38.69 V	38.88 V
Maximum Power Current	I _{mp} 12.23 A	12.27 A	12.31 A
Open Circuit Voltage	V _{oc} 46.32 V	46.50 V	46.69 V
Short Circuit Current	I _{sc} 12.92 A	12.97 A	13.01 A

NMOT: Irradiance 800 W/m², Ambient Temperature 20° C, Air Mass 1.5, Wind Speed 1m/s

System Design

Maximum System Voltage	1500V DC
Operating Temperature	-40°C — +85°C
Maximum Series Fuse Rating	35 A
Static Load	2400 Pa (Wind), 5400 Pa (Snow)*
Safety Class	II
Fire Class	UL Type 29
Bifacial Rate**	80 $\pm$ 5%

* Only mounted with adherence to prescribed techniques

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

Thermal Characteristics

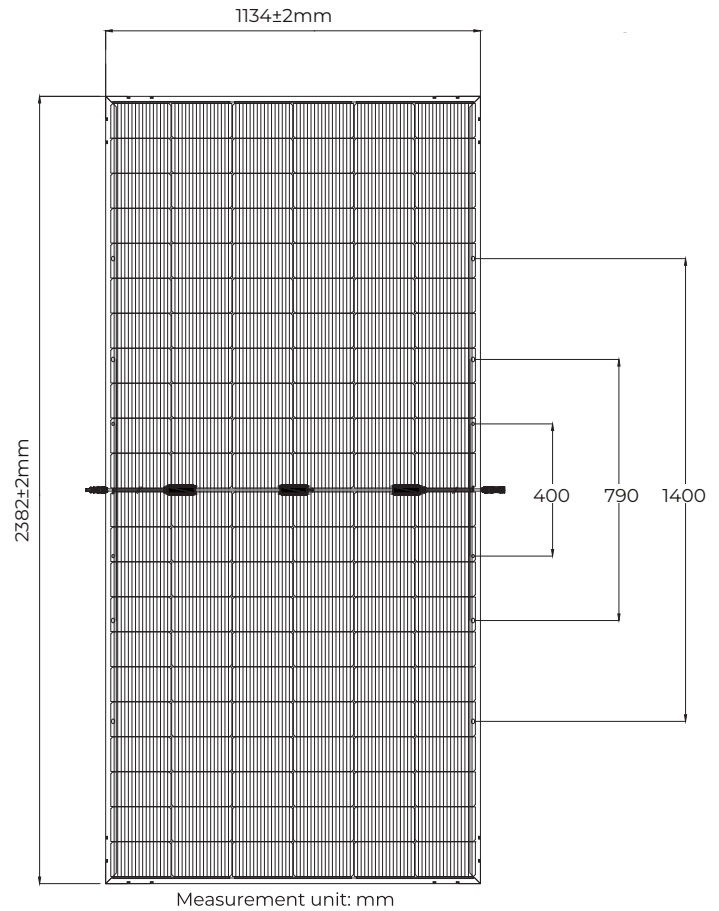
NOCT	45 $\pm$ 2 °C
Temperature Coefficient P _{mp}	-0.290 % / °C
Temperature Coefficient I _{sc}	+0.045 % / °C
Temperature Coefficient V _{oc}	-0.250 % / °C

Mechanical Characteristics

Dimension	2382mm x 1134mm x 30mm
Cell Type	TOPCon G12R - 16 Busbar
Cells Per Module	132 Half-Cell
Weight	33 kg $\pm$ 1 kg
Front / Rear Glass	2.0+2.0mm, tempered glass
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 (-)*
Connector	Original Staubli MC4 Evo2

*Cable lenght may differ based on the installation method

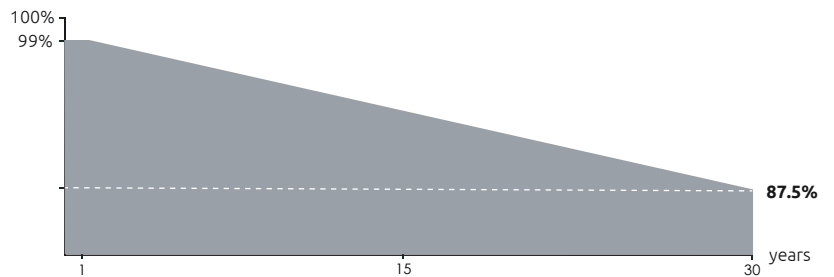
Technical Module Drawing



Bifacial Rearside Power Gain

Gain	Module Type	SPE620-132GGT	SPE625-132GGT	SPE630-132GGT
5 %	Maximum Power (P _{max})	651 Wp	656 Wp	662 Wp
	Module Efficiency at STC (%)	24.11	24.31	24.50
10 %	Maximum Power (P _{max})	682 Wp	688 Wp	693 Wp
	Module Efficiency at STC (%)	25.26	25.46	25.67
15 %	Maximum Power (P _{max})	713 Wp	719 Wp	725 Wp
	Module Efficiency at STC (%)	26.41	26.62	26.83

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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