

TOPCon 182 Solar Module

PCE-460/108-S5S

460W / 108 Cells / N-Type Half-Cell Bifacial PV Module

FEATURES



25-year Warranty for
Materials & Processing



30-year Warranty for
Extra Linear Power Output



Double-sided power generation
Generates electricity from both sides,
with sunlight reflected from surrounding
surfaces for enhanced efficiency



Durability Against Extreme
Environmental Conditions

High salt mist & ammonia resistance
certified by TUV NORD



PID Resistance

Excellent Anti-PID performance
guarantee via optimized mass-production
process and materials control



High Efficiency

Higher module conversion efficiency
benefit from half cell structure [low
resistance characteristic]



Low-light Performance

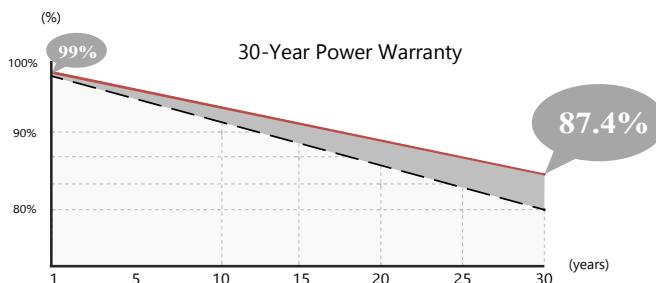
Advanced glass and cell surface textured
design ensure excellent performance in
low-light environment



Severe Weather Resilience

Certified to withstand: Wind load 2400
pascal, & snow load 5400 pascal

Additional Value



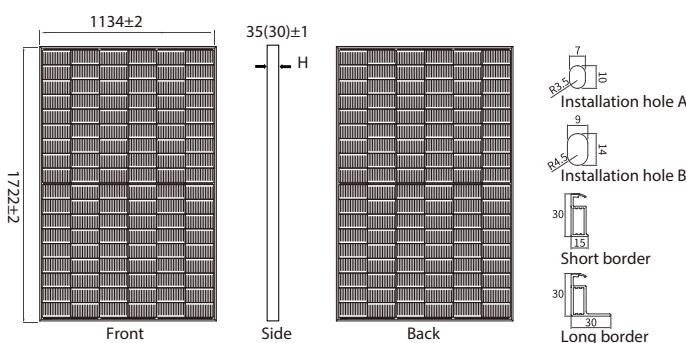
ISO 9001: 2015: ISO Quality Management Systems
ISO 14001: 2015: ISO Environment Management Systems
ISO 45001: 2018: ISO Occupational Health and Safety Management Systems
GB/T 29490-2013

SPECIFICATIONS

Model	PCE-460/108-S5S	
Mechanical Specification		
Cell	N-Type Monocrystalline	
No. of Cells	144 (6x24)	
Cable Length	300 (+) / 300 (-) mm or customized length	
Cable Cross Section Size	4 mm ² (IEC)	
Junction Box	IP68, 3 diodes	
Connector	MC4 Compatible	
Operation		
Maximum System Voltage	1,500 VDC	
Maximum Series Fuse	25 A	
Maximum StaticLoad,Front	5,400 Pa (112 lb/ft ²)	
Maximum StaticLoad,Back	2,400 Pa (50 lb/ft ²)	
Operating Temperature	-40°C ± 85°C	
Safety Class	Class II	
Electrical Characteristics		
Testing Condition	STC	NOCT
Maximum Power (Pmax/Wp)	460	350
Open Circuit Voltage (Voc/V)	39.54	37.86
Short Circuit Current (Isc/A)	14.79	11.92
Voltage at Maximum Power (Vmp/V)	32.84	31.03
Current at Maximum Power (Imp/A)	14.01	11.29
Module Efficiency	23%	
Temperature Ratings		
Nominal Operating Cell Temperature	45 ± 2°C	
Temperature Coefficient of Isc	+0.045% /°C	
Temperature Coefficient of Voc	-0.275% /°C	
Temperature Coefficient of Pmax	-0.350% /°C	
Physical		
Dimension, L x W x T (mm)	1,722 ± 1 x 1,134 ± 1 x 35 ± 1	
Net Weight (kg)	20 ± 3%	
Cells Type	TOPCon 182	

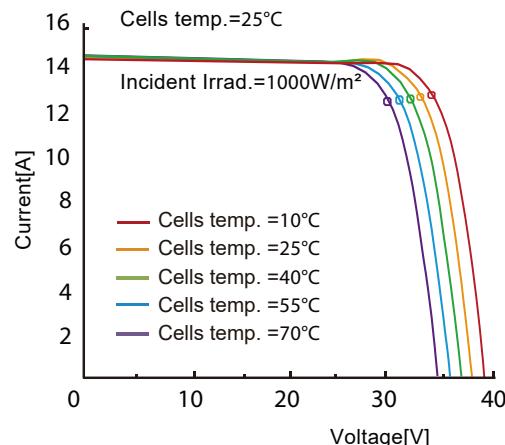
STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s

LAYOUT

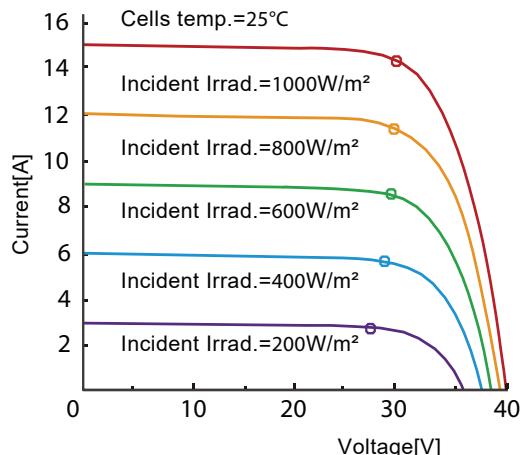


Remark: customized frame color and cable length available upon request
Panels Available in 2 colors: Black & Grey

Current/Voltage curve (A/V)



Current/Voltage curve (A/V)



Power/Voltage curve at different temperatures

