



# TOPCon 182 Solar Module PCE-600/144-S5

600w / 144 Cells - N-Type Bifacial Mono PV Module

## FEATURES

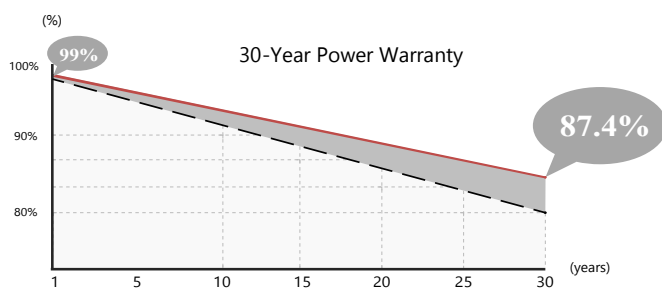


**25-year Warranty for Materials & Processing**



**30-year Warranty for Extra Linear Power Output**

### 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



**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**

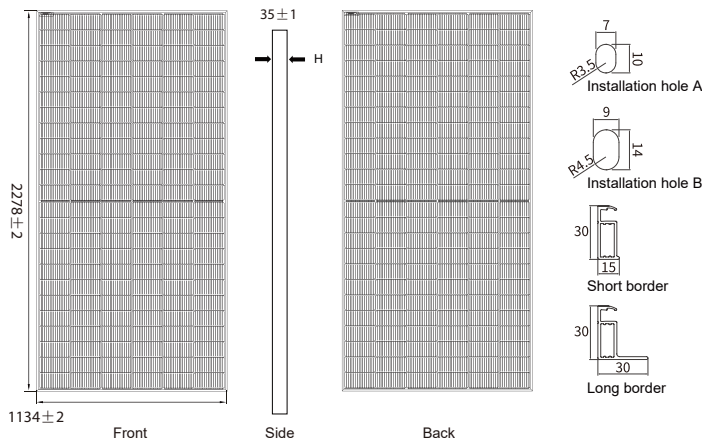
Certified to withstand: Wind load 2400 pascal, & snow load 5400 pascal

# SPECIFICATIONS

Model		PCE-600/144-S5
<b>Mechanical Specification</b>		
Cell	N-Type Monocrystalline	
No. of Cells	144 (6x24)	
Cable Length	300 (+) / 300 (-) mm or customized length	
Cable Cross Section Size	4 mm <sup>2</sup> (IEC)	
Junction Box	IP68,3 diodes	
Connector	MC4 Compatible	
<b>Operation</b>		
Maximum System Voltage	1,500 VDC	
Maximum Series Fuse	25 A	
Maximum StaticLoad,Front	5,400 Pa (112 lb/ft <sup>2</sup> )	
Maximum StaticLoad,Back	2,400 Pa (50 lb/ft <sup>2</sup> )	
Operating Temperature	-40°C ± 85°C	
Safety Class	Class II	
<b>Electrical Characteristics</b>		
Testing Condition	STC	NOCT
Maximum Power (Pmax/Wp)	600	451
Open Circuit Voltage (Voc/V)	51.58	48.95
Short Circuit Current (Isc/A)	14.79	11.94
Voltage at Maximum Power (Vmp/V)	42.97	40.23
Current at Maximum Power (Imp/A)	13.97	11.22
Module Efficiency	23.2%	
<b>Temperature Ratings</b>		
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	
<b>Physical</b>		
Dimension, L x W x T (mm)	2,278 ± 1 x 1,134 ± 1 x 35 ± 1	
Net Weight (kg)	32.6 ± 3%	
Cells Type	TOPCon 182	

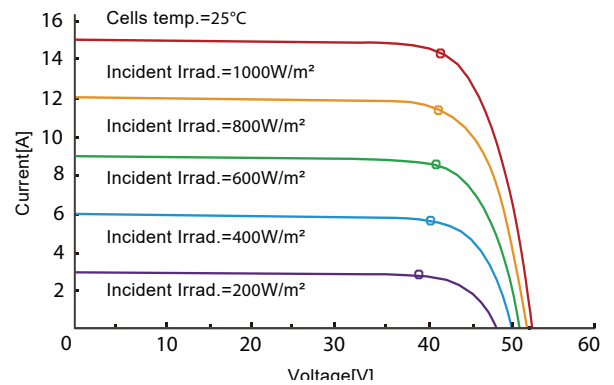
STC:AM1.5 1000W/m<sup>2</sup> 25°C NOCT:AM1.5 800W/m<sup>2</sup> 20°C 1m/s

# LAYOUT

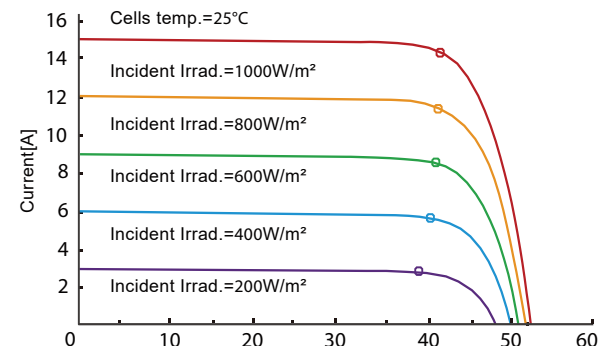


# CHARACTERISTICS

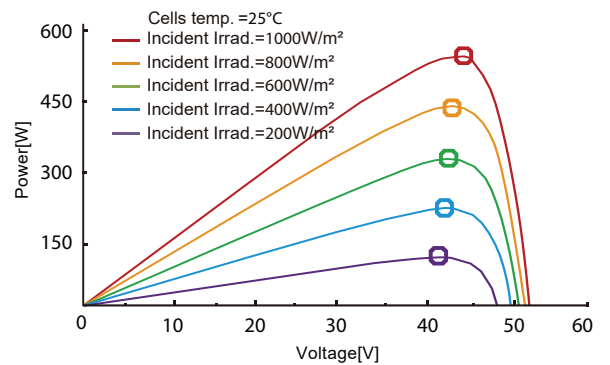
**Current/Voltage curve (A/V)**



**Current/Voltage curve (A/V)**



**Power/Voltage curve at different temperatures**



**Power Output of the Front-Rear Side**

Power Gain (%)	5	10	15	20	25
Maximum Power (Pmax/W)	609	643	678	714	750
Pmax Gain (%)	23.6	24.9	26.2	27.6	29.0

Referenced specifically to 580Wp front