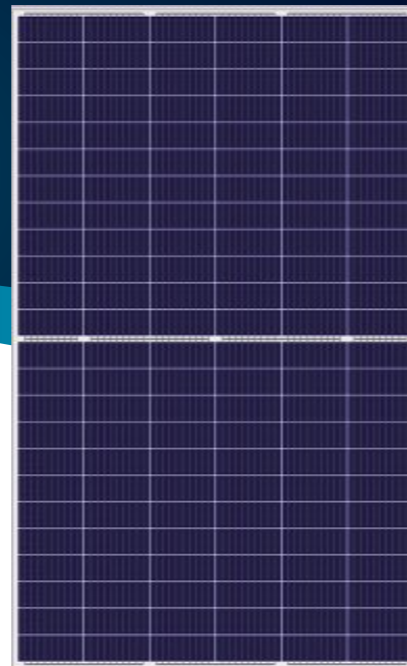


SM-60 PHC HALF CELL SERIES 120 CELLS

280-300w



17.8%
Max efficiency

15 YEARS

Guarantee on product material and workmanship



158.75mm
Polycrystalline solar cells

25 YEARS

Linear power output warranty

KEY FEATURES



100% double EL test enabling remarkable reduction of hidden crack rate of modules



Positive power tolerance (3 ~ +10W) guaranteed



Lower risk of hot spot effects



Significantly lower LCOE and BoS cost savings



Low Light Features
Higher performance under low light environment.



5BB/9BB Cell
More uniform current collection capability, reducing the current heat loss of the internal cells.



PID Protection
Ensure the attenuation probability caused by PID phenomenon is minimized

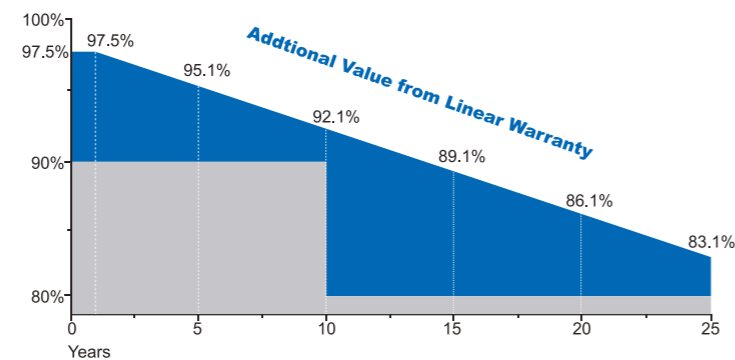
MANAGEMENT SYSTEM

ISO 9001: Quality management system

ISO 14001: Standard for environmental management system

OHSAS 18001: International standard for occupational health and safety assessment system

WARRANTY



INSURANCE



PRODUCT CERTIFICATES



POLY HALF CELL | 9BB&5BB

Electric Characteristics

Model of modules	SM-280-60PHC		SM-285-60PHC		SM-290-60PHC		SM-295-60PHC		SM-300-60PHC	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power— P_{mp} (W)	280W	210W	285W	214W	290W	218W	295W	221W	300W	225W
Open-circuit voltage— V_{oc} (V)	38.6V	35.7V	38.8V	35.9V	39.0V	36.1V	39.2V	36.3V	39.4V	36.5V
Short-circuit current— I_{sc} (A)	9.45A	7.56A	9.55A	7.64A	9.65A	7.72A	9.75A	7.80A	9.85A	7.88A
Maximum power voltage— V_{mp} (V)	31.9V	30.0V	32.35V	30.3V	32.8V	30.6V	33.25V	30.9V	33.66V	30.2V
Maximum power current— I_{mp} (A)	8.78A	7.0A	8.81A	7.05A	8.84A	7.11A	8.87A	7.16A	8.91A	7.21A
Module efficiency— η_m (%)	16.6%		16.9%		17.2%		17.5%		17.8%	

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

Temperature Characteristics

Temperature coefficient at maximum power	-0.37%/ °C
Temperature coefficient of Voc	-0.29%/ °C
Temperature coefficient of Isc	+0.05%/ °C
Current operating temperature	-40~+85 °C
Rated operating temperature of cells	45±2 °C

Structural Characteristics

Module dimensions	1684x1002x35mm
Weight	19kg
No. of Half-cells	120(6x20)
Cell	Poly crystalline 158.75x79.38mm
Glass	3.2mm AR coating tempered glass
Frame	Anodized aluminum alloy
Junction box	IP68, three diodes
Output wire	4.0 mm ² , wire length: 1200mm or Customized
Connector	MC4 compatible
Mechanical load	Snow load 5400Pa/Wind load 2400Pa

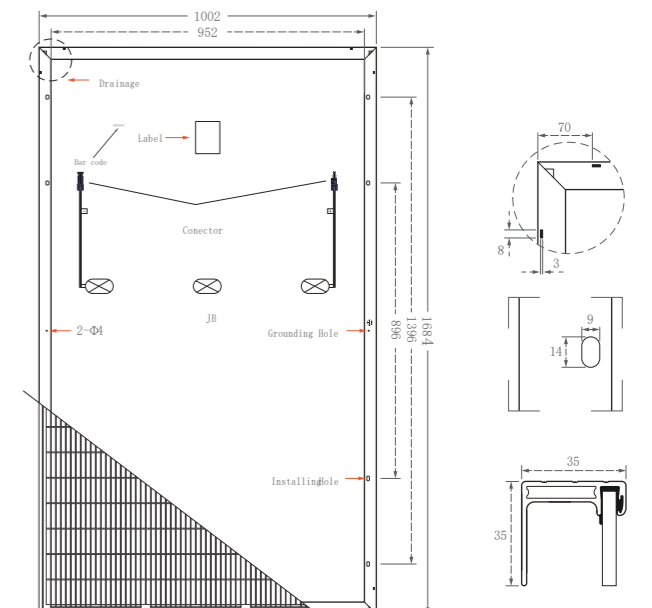
Working Characteristics

Power tolerance(W)	(3,+10)
Maximum system voltage(V)	1000V/1500V
Maximum rated fuse current (A)	20

Packaging Configuration

Container	20GP	40HQ
Quantity per pallet	30	31
Pallets per container	12	26
Quantity per container	360	884

Engineering Drawings



IV Curves

