

Half-Cut Cell Module 270-285W



PID Anti PID



More Power

Low power loss in cell connection
Low temperature coefficient (Pmax): $-0.37\% / ^\circ\text{C}$
Low NOCT: $43 \pm 2^\circ\text{C}$



More Reliable
Lower hot spot temperature



IP68
IP68 connectors enhance the reliability of the PV system



Better Shading Tolerance



25 YEAR
12-year product warranty
25-year linear performance warranty

Bloomberg Tier1
NEW ENERGY FINANCE

TOP PERFORMER*



Features



Excellent Temperature Coefficient



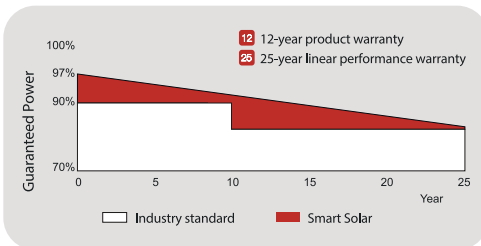
Higher Power Output

Outstanding performance in weak-light conditions



Better Durability

Enhanced durability in practical application through more strict in house testing standards than IEC



Poly PERC

About Smart Energy

Smart Energy produces new generation PERC, Black Silicon, Dual Glass, Bifacial, MBB and Half-Cut Cell modules with both backsheet and glass-glass options on its state-of-the-art technology production lines in its factory located in Gebze Organized Industrial Zone with a covered area of 23.500 m².

* These criteria are applied only to Panels manufactured with Phono Solar brandname.

Half-Cut Cell Module

ELECTRICAL TYPICAL VALUES

Model	PS270P-20/UH	PS275P-20/UH	PS280P-20/UH	PS285P-20/UH
	PS270PH-20/UH	PS275PH-20/UH	PS280PH-20/UH	PS285PH-20/UH
Type	Polycrystalline 6 inch x 3 inch square			
Rated Power (Pmpp)	270	275	280	285
Tolerance	0~+5w			
Rated Current (Impp)	8.56	8.66	8.75	8.84
Rated Voltage (Vmpp)	31.55	31.76	32.01	32.24
Short Circuit Current (Isc)	9.01	9.10	9.19	9.28
Open Circuit Voltage (Voc)	37.50	37.78	38.08	38.34
Module Efficiency (%)	16.25	16.55	16.85	17.15
NOCT (Nominal Operation Cell Temperature)	43°C ± 2°C			
Voltage Temperature Coefficient	-0.308%/°C			
Current Temperature Coefficient	+0.051%/°C			
Power Temperature Coefficient	-0.376%/°C			

MECHANICAL CHARACTERISTICS

Dimension (L x W x H)	Length: 1675mm (65.95 inch)
	Width: 992mm (39.06 inch)
	Height: 40mm (1.57 inch)
Weight	18.5kg (40.78 lbs)
Front Glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC) / Length: 350mm (v) 1150mm (h) or Customized length
Junction Box	IP68 rated

ABSOLUTE MAXIMUM RATING

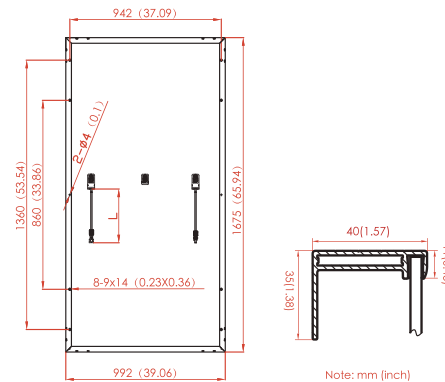
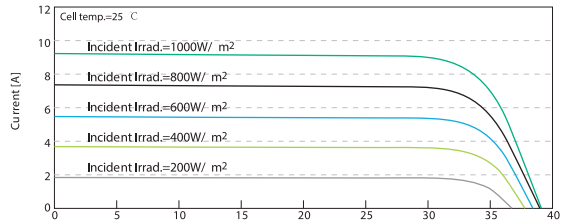
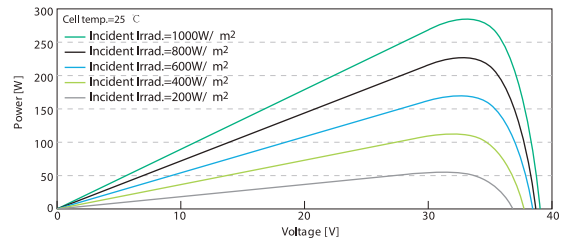
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	15A / 20A
IEC Application Class (IEC61730)	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL1703)	Type 1
Maximum System Voltage	DC 1000V / 1500V (IEC / ELT)

PACKING CONFIGURATION

Container	40'HQ	20'GP
Pieces / Container	832	312

- In compliance with our warranty terms and conditions.
- Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m², Air mass 1.5 Spectrum, cell temperature of 25°C.

ELECTRICAL CHARACTERISTICS



Address:
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Note:
 This datasheet is not legally binding. Smart Solar reserves the right to adjust specifications without notice.
 Further information please refer to our website:
www.smartsolar.com.tr

