

## Half-Cut Big Cell Module 385-400W



Anti PID



More Power

Low power loss in cell connection  
Low temperature coefficient (Pmax): -0.37% / °C  
Low NOCT: 43±2 °C



More Reliable

Lower hot spot temperature



IP68 connectors  
enhance the reliability  
of the PV system



Better Shading Tolerance



12-year product warranty  
25-year linear performance  
warranty

**Bloomberg Tier1**  
NEW ENERGY FINANCE

**TOP\***  
PERFORMER



### Features



**Excellent Temperature Coefficient**



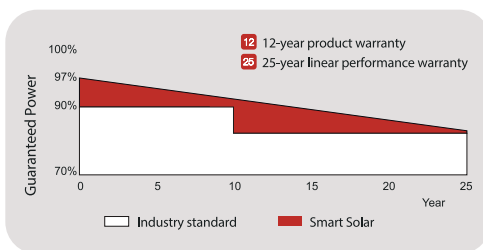
**Higher Power Output**

Outstanding performance in weak-light conditions



**Better Durability**

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



## Mono 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 Big Cell Module

## ELECTRICAL TYPICAL VALUES

	PS385M1-24/TH	PS390M1-24/TH	PS395M1-24/TH	PS400M1-24/TH
Model	PS385M1H-24/TH	PS390M1H-24/TH	PS395M1H-24/TH	PS400M1H-24/TH
Type	Monocrystalline 158.75mm x 79.38mm			
Rated Power (Pmpp)	385	390	395	400
Tolerance	0~+5w			
Rated Current (Impp)	9.64	9.70	9.77	9.83
Rated Voltage (Vmpp)	39.20	40.21	40.43	40.70
Short Circuit Current (Isc)	10.01	10.07	10.13	10.19
Open Circuit Voltage (Voc)	48.24	48.54	48.87	49.21
Module Efficiency (%)	19.15	19.40	19.65	19.90
NOCT (Nominal Operation Cell Temperature)	43°C ± 2°C			
Voltage Temperature Coefficient	-0.30%/°C			
Current Temperature Coefficient	+0.05%/°C			
Power Temperature Coefficient	-0.38%/°C			

## MECHANICAL CHARACTERISTICS

Dimension (L x W x H)	Length: 2010mm (79.13 inch)
	Width: 1000mm (39.37 inch)
	Height: 40mm (1.57 inch)
Weight	23kg (51.8 lbs)
Front Glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Cable	4mm <sup>2</sup> (IEC), Length: 350mm (d) 1250mm (y) or Customized length
Junction Box	IP68 rated

## ABSOLUTE MAXIMUM RATING

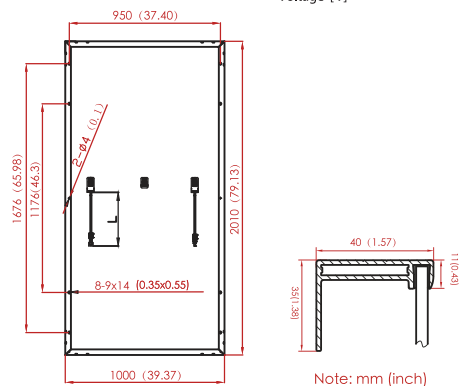
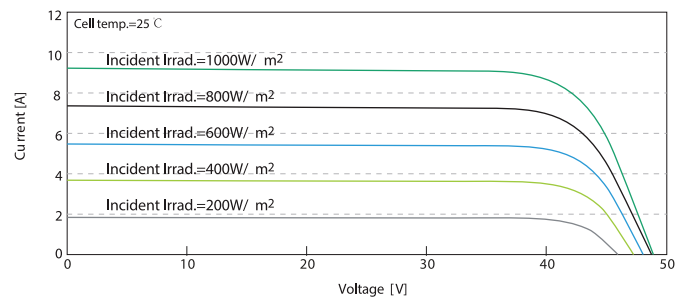
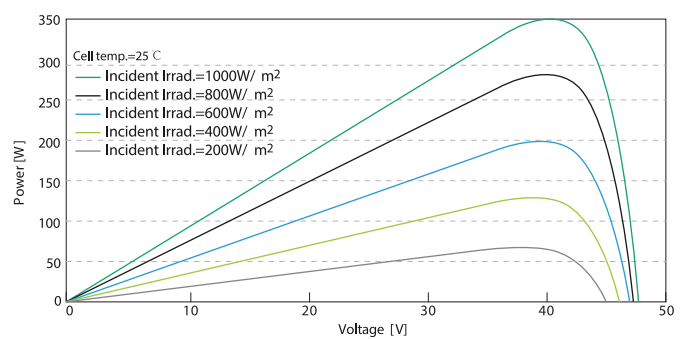
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	15A / 20A
IEC Application Class (IEC61730)	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL1703)	Type 1
Maximum System Voltage	DC 1000V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

## PACKING CONFIGURATION

Container	40'HQ	20'GP
Pieces / Container	616	230

- In compliance with our warranty terms and conditions.
- Measurement conditions under irradiance level of Standard Test Conditions (STC): 1000W/m<sup>2</sup>, Air mass 1.5 Spectrum, cell temperature of 25°C.

## WEAK LIGHT PERFORMANCE



Address:  
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3200 Street, No: 3207 Gebze/Kocaeli - Turkey  
P : +90 262 673 7100  
F : +90 262 673 7103

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](http://www.smartsolar.com.tr)

