

# Phono<sup>®</sup> Solar

# TwinPlus Module

Mono Perc/390-405W/Big Cell

Bloomberg  
NEW ENERGY FINANCE

Tier1



**PID Resistant**



**Better Shading Tolerance**



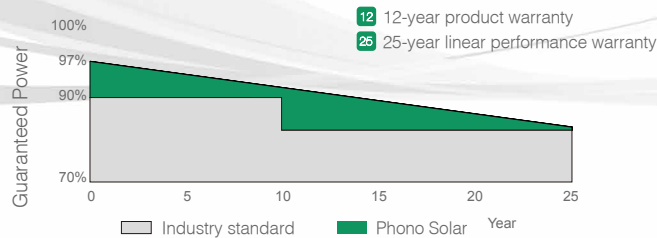
**More Reliable**

Lower hot spot temperature



**More Power**

Low power loss in cell connection  
Low temperature coefficient (Pmax):  $-0.38\% / ^\circ\text{C}$   
Low NOCT:  $43\pm 2^\circ\text{C}$



EN EN-20200101

## ELECTRICAL TYPICAL VALUES

Model	PS390M1-24/TH PS390M1H-24/TH	PS395M1-24/TH PS395M1H-24/TH	PS400M1-24/TH PS400M1H-24/TH	PS405M1-24/TH PS405M1H-24/TH
Type	Monocrystalline 158.75mm X 79.38mm			
Rated Power (Pmpp)	390W	395W	400W	405W
Tolerance	0~+5w			
Rated Current (Impp)	9.70	9.77	9.83	9.89
Rated Voltage (Vmpp)	40.21	40.43	40.70	40.96
Short Circuit Current (Isc)	10.07	10.13	10.19	10.25
Open Circuit Voltage (Voc)	48.54	48.87	49.21	49.52
Module Efficiency (%)	19.40	19.65	19.90	20.15
NOCT (Nominal Operating Cell Temperature)	43±2°C			
Voltage Temperature Coefficient	-0.30%/°C			
Current Temperature Coefficient	+0.05%/°C			
Power Temperature Coefficient	-0.38%/°C			

## MECHANICAL CHARACTERISTICS

Dimension (L× W × H)	Length: 2010mm (79.13inch) Width: 1000mm (39.37 inch) Height: 40mm (1.57 inch)
Weight	23.5kg (51.8 lbs)
Front Glass	3.2mm Toughened Glass
Frame	Anodized Aluminium Alloy
Cable	4mm <sup>2</sup> (IEC) , Length:350mm (vertical) 1250mm (horizontal) or Customized Length
Junction Box	IP 68 Rated

## ABSOLUTE MAXIMUM RATING

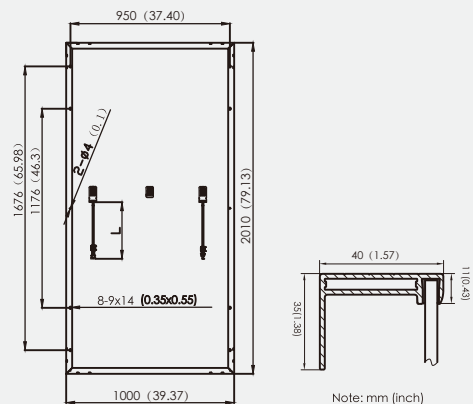
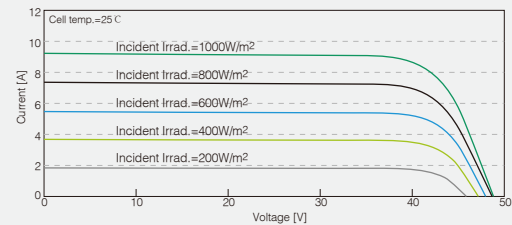
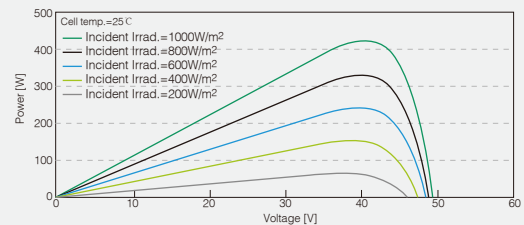
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	20A
Application Class and Safety Class	II
Fire Rating (IEC61730)	C
Module Fire Performance (UL 1703)	Type1
Maximum System Voltage	DC 1000V/1500V (IEC/ETL)

## PACKING CONFIGURATION

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

1. In compliance with our warranty terms and conditions.
2. 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.

## ELECTRICAL CHARACTERISTICS



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**Note:** This datasheet is not legally binding. Phono Solar Technology Co., Ltd. reserves the right to adjust specifications without notice. Further information please refer to our [Website:www.phonosolar.com](http://www.phonosolar.com), [E-mail:info@phonosolar.com](mailto:info@phonosolar.com)