

Phono[®] Solar

TwinPlus Module

Mono Perc/390-410W/Big Cell

Bloomberg
NEW ENERGY FINANCE

Tier1



PID Resistant



Better shading tolerance



More Reliable

Lower hot spot temperature

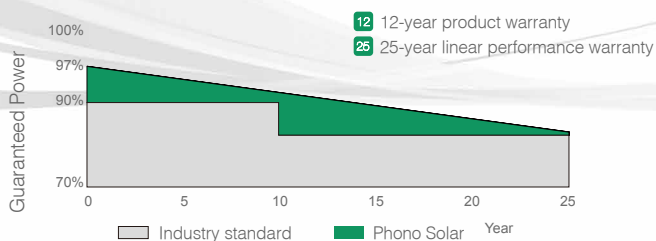


More Power

Low power loss in cell connection
Low temperature coefficient (Pmax): $-0.417\% / ^\circ\text{C}$
Low NOCT: $45\pm 2^\circ\text{C}$



2x72
Cells



EN EN-20191028

SINOMACH | SUMEC
SUMEC GROUP CORPORATION

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	PS410M1-24/TH PS410M1H-24/TH
Type	Perc Monocrystalline 158.75mm X 79.38mm				
Rated Power (Pmpp)	390W	395W	400W	405W	410W
Tolerance	0~+5w				
Rated Current (Impp)	9.66	9.74	9.81	9.89	9.97
Rated Voltage (Vmpp)	40.37	40.55	40.77	40.95	41.12
Short Circuit Current (Isc)	10.48	10.56	10.64	10.71	10.79
Open Circuit Voltage (Voc)	48.18	48.37	48.55	48.73	48.91
Module Efficiency (%)	19.38	19.63	19.88	20.13	20.38
NOCT (Nominal Operating Cell Temperature)	45±2°C				
Voltage Temperature Coefficient	-0.306%/°C				
Current Temperature Coefficient	+0.046%/°C				
Power Temperature Coefficient	-0.417%/°C				

MECHANICAL CHARACTERISTICS

Dimension (L× W × H)	Length: 2008mm (79.06inch) Width: 1002mm (39.45 inch) Height: 40mm (1.57 inch)
Weight	23.0kg (50.7 lbs)
Front Glass	3.2mm toughened glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC) , Length:350mm (vertical) 1250mm (horizontal) or Customized length
Junction Box	IP 68 rated

ABSOLUTE MAXIMUM RATING

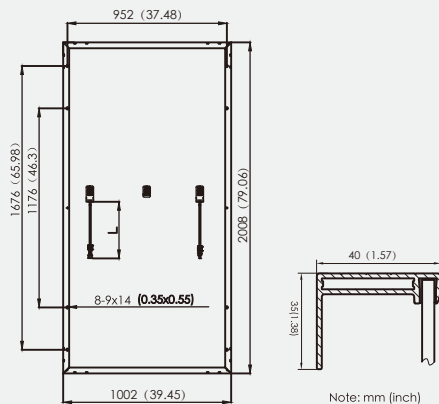
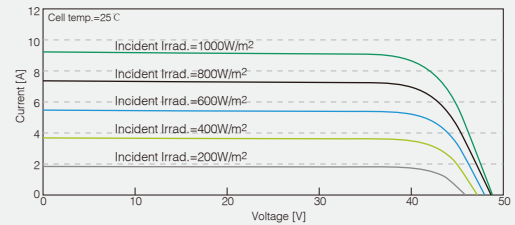
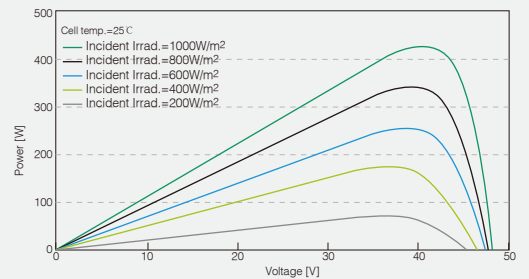
Parameter	Values
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Surface Maximum Load Capacity	Up to 5400Pa
Maximum Series Fuse Rating	20A
Application Class	A
Fire Rating (IEC61730)	C
Module Fire Performance (UL 1703)	Type1
Maximum System Voltage	DC 1000V/1500V (IEC/UL)

PACKING CONFIGURATION

Container	40' HQ
Pieces/Container	594

1. In compliance with our warranty terms and conditions.
2. Measurement conditions under irradiance level of Standard Test Conditions(STC): 1000W/m²
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)