Phono[®] Solar

TWINPLUS X MODULE SERIES

HIGH EFFICIENCY MONO-PERC M6(R)-10B-R

395-415W



ORIGINAL CUTLESS HALF-CELL TECHNOLOGY IN PV MODULE INDUSTRY

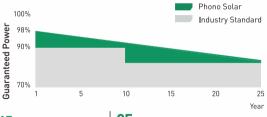
OPTIMIZED MODULE APPEARANCE WITH SQUARE **MONO WAFER**

OUTSTANDING PRODUCT PERFORMANCE

- 0.32% additional power yield benefited from square mono wafer
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Higher power generation and better performance under shading effect with multi-busbar and half-cell technology

TRUSTWORTHY QUALITY AND RELIABILITY

- Optimized electrical design lowers hot spot risk and operating current
- Minimized risk of microcrack by using industry-leading cutless cell processing
- Excellent anti-PID resistance by Nitrous Oxide passivation processing technology



15-year Product Warranty 25-year Linear Performance Warranty

MANAGEMENT SYSTEM CERTIFICATES

IEC 61215, IEC 61730

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental management system

ISO 45001:2018 / International standards for occupational health & safety





















ELECTRICAL TYPICAL VALUES											
Model	1000V	PS395M6-18/VH		PS400M6-18/VH		PS405M6-18/VH		PS410M6-18/VH		PS415M6-18/VH	
	1500V	PS395M6H-18/VH		PS400M6H-18/VH		PS405M6H-18/VH		PS410M6H-18/VH		PS415M6H-18/VH	
Testing Condition		STC	NOCT								
Rated Power (Pmpp)		395	294	400	298	405	301	410	305	415	309
Rated Current (Impp)		12.88	10.41	12.97	10.48	13.06	10.55	13.15	10.63	13.24	10.70
Rated Voltage (Vmpp)		30.67	28.24	30.85	28.40	31.02	28.55	31.18	28.71	31.35	28.86
Short Circuit Current (Isc)		13.42	10.84	13.52	10.92	13.62	11.00	13.72	11.09	13.82	11.17
Open Circuit Voltage (Voc)		36.67	34.62	36.87	34.81	37.05	34.98	37.23	35.15	37.42	35.32
Module Efficiency (%)		20.23		20.48		20.74		21.00		21.25	

STC(Standard Testing Conditions):Irradiance 1000W/m², AM 1.5, Cell Temperature 25'C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/S

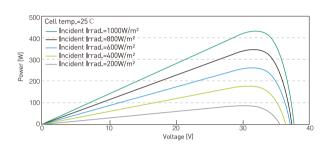
MECHANICAL CHARACTERISTICS Cell Type Monocrystalline 182mm x 91mm Length: 1722mm (67.80 inch) Dimension (L×W×H) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch) Weight 22.0kg (48.50 lbs) Front Glass 3.2mm Toughened Glass Frame Anodized Aluminium Alloy Cable 4mm² (IEC), (+):1100mm,(-):1100mm (Including Connector) IP 68 Rated Junction Box

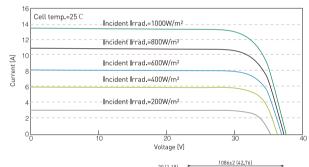
TEMPERATURE RATINGS		
Voltage Temperature Coefficient	-0.28%/'C	
Current Temperature Coefficient	+0.05%/'C	
Power Temperature Coefficient	-0.35%/'C	
Tolerance	0~+5w	
NOCT	45±2'C	

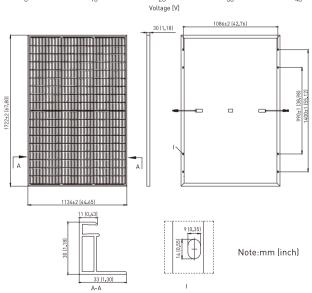
ABSOLUTE MAXIMUM RATING	
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	25A
PV Module Classification	II
Fire Rating (IEC 61730)	С
Maximum System Voltage	DC 1000V/1500V

PACKING CONFIGURATION				
Container	20' GP	40' HQ		
Pieces/Container	216	936		

ELECTRICAL CHARACTERISTICS









PHONO SOLAR TECHNOLOGY CO.,LTD reserves the right to make necessary adjustments to the information described herein at any time without further notice. The specifications and certificates contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Please be sure to use the most recent version of data.