



# 490-510W Twinplus Module Series

HIGH EFFICIENCY MONO-PERC M6-10B-R







### **Outstanding Product Performance**

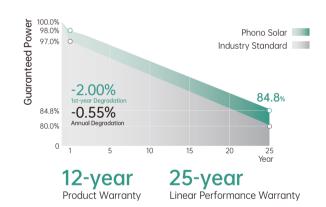
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to 45 ± 2°C
- Higher power generation with multi-busbar and half-cut technology

## Trustworthy Quality And Reliability

- Guaranteed 0~+5W positive tolerance secures reliable power output
- 5400Pa maximum snow load, 2400Pa maximum wind load
- Optimized electrical design lowers hot spot risk and operating current

#### PID Resistant

 Industry-leading cell processing technology and electrical design ensure solid PID resistance



# 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	PS490M6-22/WH		PS495M6-22/WH		PS500M6-22/WH		PS505M6-22/WH		PS510M6-22/WH		
	1500V	PS490M6H-22/WH		PS495M6H-22/WH		PS500M6H-22/WH		PS505M6H-22/WH		PS510M6H-22/WH		
Testing Condition		STC	NOCT									
Rated Power (Pmpp)		490	369	495	373	500	377	505	381	510	384	
Rated Current (Impp)		12.97	10.46	13.06	10.54	13.15	10.61	13.24	10.68	13.33	10.75	
Rated Voltage (Vmpp)		37.78	35.29	37.91	35.40	38.03	35.52	38.15	35.63	38.27	35.74	
Short Circuit Current (Isc)		13.52	10.91	13.62	10.99	13.72	11.07	13.82	11.15	13.92	11.23	
Open Circuit Voltage (Voc)		45.15	42.80	45.28	42.93	45.41	43.05	45.53	43.16	45.66	43.29	
Module Efficiency (%)		20.64		20	20.85		21.06		21.27		21.48	
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STC(Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, 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 Length: 2094mm (82.44 inch) Dimension (L × W × H) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch) Weight 26.0kg (57.32 lbs) Glass 3.2mm toughened glass Frame Anodized Aluminium Alloy 4mm² (IEC), Cable (Including Connector) (+): 450mm,(-): 250mm or Customized Length

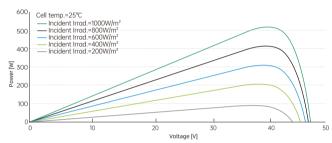
IP 68 Rated

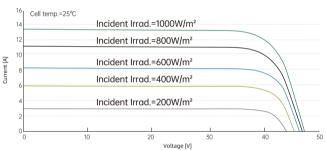
Temperature Ratings	
Voltage Temperature Coefficient	-0.26% <b>/</b> °C
Current Temperature Coefficient	+0.042%/°C
Power Temperature Coefficient	-0.33% <b>/</b> °C
Power Tolerance	0~+3%
NOCT	45±2°C

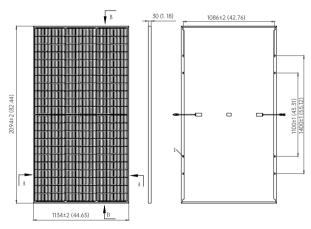
Absolute Maximum Rating					
Operating Temperature	From -40 to + 85°C				
Hail Diameter @ 80km/h	Up to 25mm				
Front Side Maximum Static Loading	5400Pa				
Rear Side Maximum Static Loading	2400Pa				
Maximum Series Fuse Rating	25A				
PV Module Classification	II				
Fire Rating (IEC61730)	С				
Maximum System Voltage	DC 1000V/1500V				

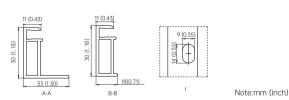
Packing Configuration					
Container	20' GP	40' HQ			
Pieces/Container	180	792			

#### **Electrical Characteristics**











Junction Box

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