



# 490-510w Twinplus Module Series

Bloomberg Tier



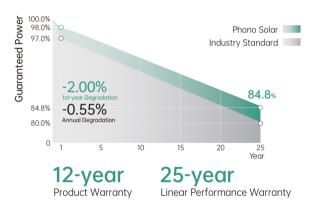
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to 45 ± 2°C
- Higher power generation with multi-busbar and half-cut technology

# **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







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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 C	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 (lsc)		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 I	Efficiency (%)	20	.64	20	.85	21.	06	21.	27	21	.48

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
Dimension (L × W × H)	Length: 2094mm (82.44 inch) 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
Cable (Including Connector)	4mm² (IEC), (+): 450mm,(-): 250mm or Customized Length
Junction Box	IP 68 Rated

## Temperature Ratings

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

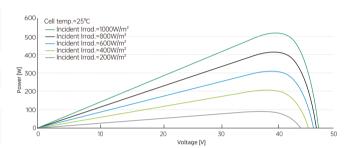
## Absolute Maximum Rating

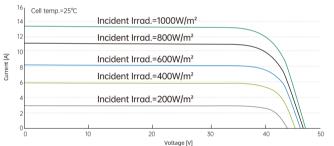
Operating Temperature	From -40 to + 85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	25A
PV Module Classification	II
Fire Rating (IEC61730)	С
Maximum System Voltage	DC 1000V/1500V

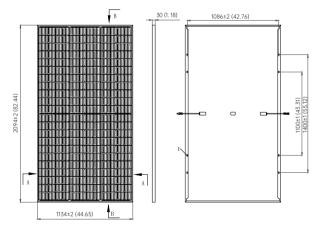
### Packing Configuration Container

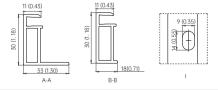
Container	20' GP	40' HQ
Pieces/Container	180	792
Pcs/Pallet	36	36
Pallets/Container	5	22

#### **Electrical Characteristics**









#### Note:mm (inch)



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