



# 410-430W Twinplus Module Series

HIGH EFFICIENCY MONO-PERC M4-9B-R







# **Outstanding Product Performance**

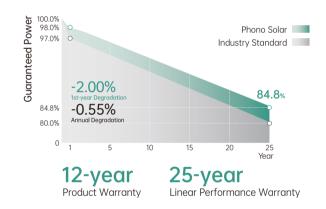
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to 45 ± 2°C
- Higher power generation with multi-busbar and half-cut technology

# **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























0M4-22/WH 0M4H-22/WH
MALLOOMALL
W4□-ZZ/W□
NOCT
321
8.82
36.34
9.42
1 43.43
21.50
7

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

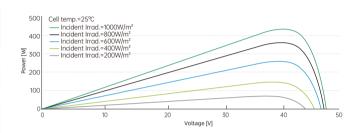
## **Mechanical Characteristics** Cell Type Monocrystalline Length: 1925mm (75.79 inch) Dimension (L × W × H) Width: 1039mm (40.91 inch) Height: 30mm (1.18 inch) Weight 22.5kg (49.60 lbs) Glass 3.2mm toughened glass Frame Anodized Aluminium Alloy 4mm<sup>2</sup> (IEC), Cable (Including Connector) (+): 450mm,(-): 250mm or Customized Length IP 68 Rated Junction Box

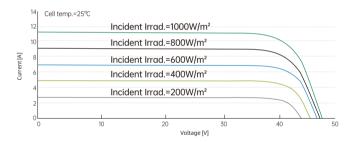
Temperature Ratings	
Voltage Temperature Coefficient	-0.27%/°C
Current Temperature Coefficient	+0.045%/°C
Power Temperature Coefficient	-0.34%/°C
Tolerance	0~+3%
NOCT	45±2°C

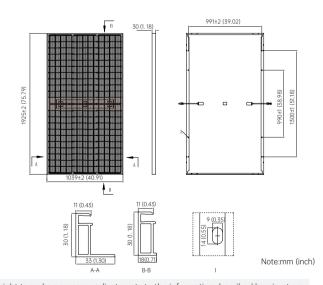
### Absolute Maximum Rating **Operating Temperature** From -40 to + 85°C Hail Diameter @ 80km/h Up to 25mm Front Side Maximum Static Loading 5400Pa 2400Pa Rear Side Maximum Static Loading Maximum Series Fuse Rating 20A **PV Module Classification** $\parallel$ Fire Rating (IEC61730) С DC 1000V/1500V Maximum System Voltage

Packing Configuration		
Container	20' GP	40' HQ
Pieces/Container	280	864
Pcs/Pallet	56	36
Pallets/Container	5	24

# **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.