

# 440-460w

## Twinplus Module Series

HIGH EFFICIENCY MONO-PERC M6-10B-R

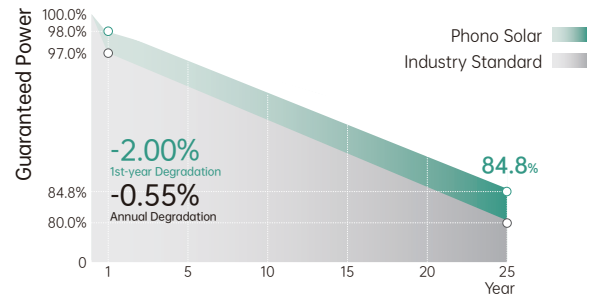
**Bloomberg**  
NEW ENERGY FINANCE

**Tier1**



### 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  $45 \pm 2^\circ\text{C}$
- Higher power generation with multi-busbar and half-cut technology



**12-year**  
Product Warranty

**25-year**  
Linear Performance Warranty

### 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	PS440M6-20/UH		PS445M6-20/UH		PS450M6-20/UH		PS455M6-20/UH		PS460M6-20/UH		
	1500V	PS440M6H-20/UH		PS445M6H-20/UH		PS450M6H-20/UH		PS455M6H-20/UH		PS460M6H-20/UH		
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	440	327	445	331	450	335	455	339	460	342		
Rated Current (Impp)	12.97	10.48	13.06	10.55	13.15	10.63	13.24	10.70	13.33	10.77		
Rated Voltage (Vmpp)	33.93	31.24	34.08	31.37	34.23	31.51	34.37	31.64	34.51	31.78		
Short Circuit Current (Isc)	13.52	10.92	13.62	11.00	13.72	11.09	13.82	11.17	13.92	11.25		
Open Circuit Voltage (Voc)	40.55	38.28	40.71	38.43	40.87	38.58	41.02	38.72	41.19	38.88		
Module Efficiency (%)	20.33		20.56		20.79		21.02		21.25			

STC(Standard Testing Conditions): Irrandance 1000W/m<sup>2</sup>, AM 1.5, Cell Temperature 25°C

NOCT (Nominal Operation Cell Temperature): Irrandance 800W/m<sup>2</sup>, Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

## Mechanical Characteristics

Cell Type	Monocrystalline 182mm x 91mm
Dimension (L × W × H)	Length: 1909mm (75.16 inch)
	Width: 1134mm (44.65 inch)
	Height: 30mm (1.18 inch)
Weight	23.5kg (51.80 lbs)
Glass	3.2mm toughened glass
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	4mm <sup>2</sup> (IEC), (+): 450mm,(-): 250mm or Customized Length
Junction Box	IP 68 Rated

## 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

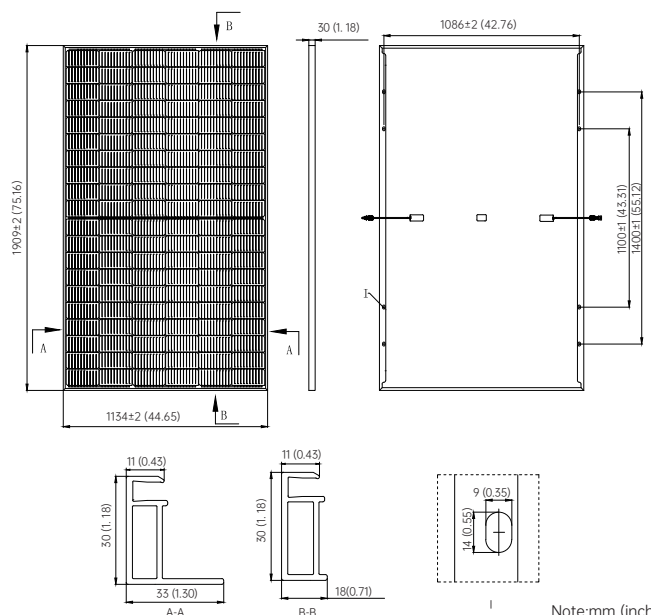
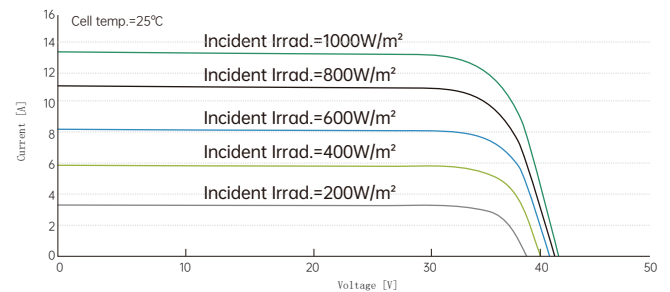
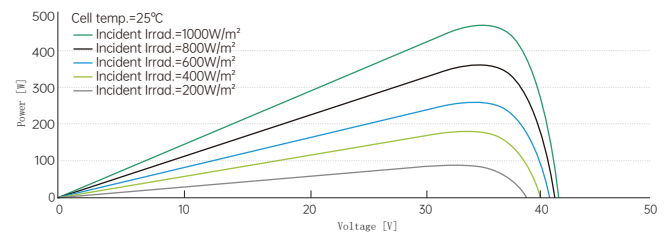
## Absolute Maximum Rating

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 (IEC61730)	C	
Maximum System Voltage	DC 1000V/1500V	

## Packing Configuration

Container	20' HQ	40' HQ
Pieces/Container	180	864

## Electrical Characteristics



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