



440-460w

Twinplus Module Series

HIGH EFFICIENCY MONO-PERC M6-10B-R

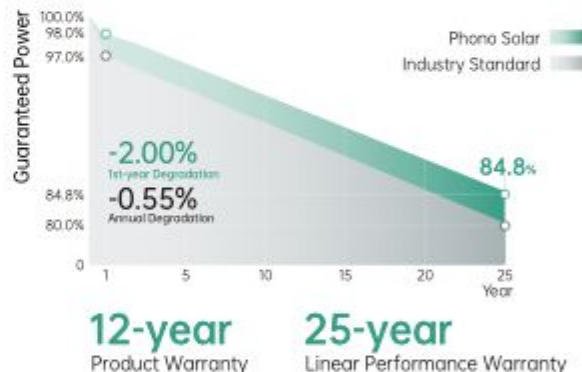
Bloomberg
NEW ENERGY FINANCE

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



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 (P _{mp})	440	332	445	335	450	339	455	343	460	347		
Rated Current (I _{mp})	12.97	10.46	13.06	10.54	13.15	10.61	13.24	10.68	13.33	10.75		
Rated Voltage (V _{mp})	33.93	31.69	34.08	31.83	34.23	31.96	34.37	32.10	34.51	32.23		
Short Circuit Current (I _{sc})	13.52	10.91	13.62	10.99	13.72	11.07	13.82	11.15	13.92	11.23		
Open Circuit Voltage (V _{oc})	40.55	38.44	40.71	38.59	40.87	38.74	41.02	38.89	41.19	39.05		
Module Efficiency (%)	20.33		20.56		20.79		21.02		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
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 ² (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

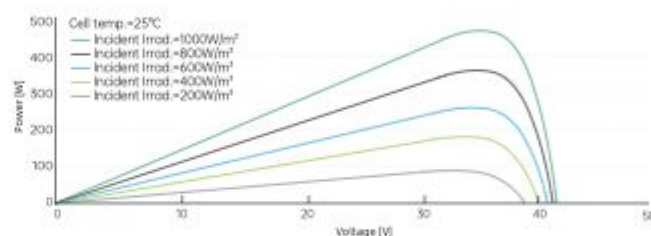
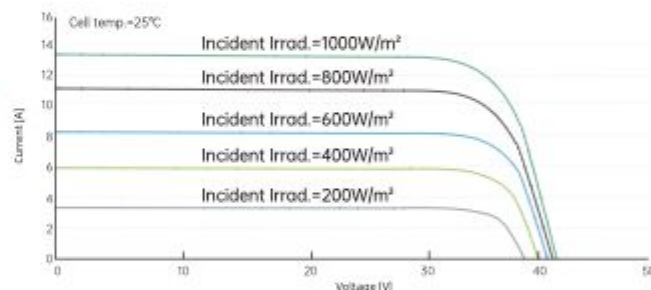
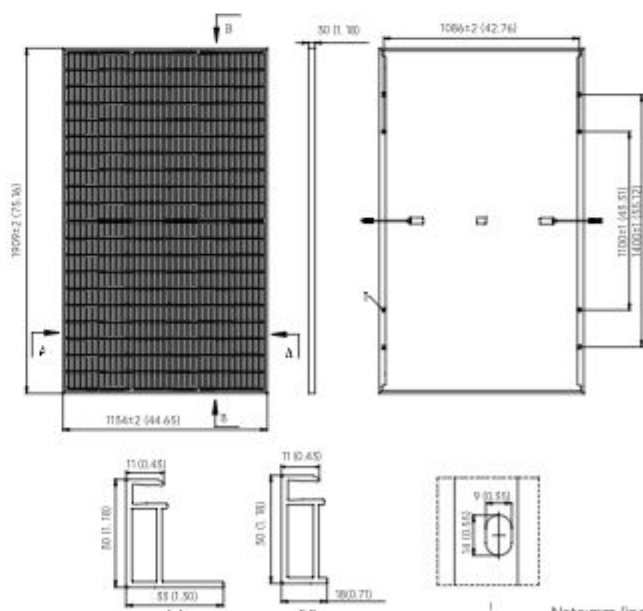
Absolute Maximum Rating

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)	C
Maximum System Voltage	DC 1000V/1500V

Packing Configuration

Container	20' GP	40' HQ
Pieces/Container	180	864
Pcs/Pallet	36	36
Pallets/Container	5	24

Electrical Characteristics



Note:mm (inch)

PHONO

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