

TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC M6-10B-R

485-505W



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



12-year Product Warranty | 25-year Linear Performance Warranty

MANAGEMENT SYSTEM CERTIFICATES

IEC 61215, IEC 61730

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental management system

OHSAS 18001:2007 / International standards for occupational health & safety

IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules-guidelines for increased confidence in PV module design qualification and type approval



Bloomberg Tier¹
NEW ENERGY FINANCE



ELECTRICAL TYPICAL VALUES

Model	PS485M6-22/WH		PS490M6-22/WH		PS495M6-22/WH		PS500M6-22/WH		PS505M6-22/WH	
	PS485M6H-22/WH	PS490M6H-22/WH	PS490M6H-22/WH	PS495M6H-22/WH	PS495M6H-22/WH	PS500M6H-22/WH	PS500M6H-22/WH	PS505M6H-22/WH	PS505M6H-22/WH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (P _{mpp})	485	361	490	365	495	368	500	372	505	376
Rated Current (I _{mpp})	12.88	10.41	12.97	10.48	13.06	10.55	13.15	10.63	13.24	10.70
Rated Voltage (V _{mpp})	37.66	34.67	37.78	34.79	37.91	34.90	38.03	35.01	38.15	35.12
Short Circuit Current (I _{sc})	13.42	10.84	13.52	10.92	13.62	11.00	13.72	11.09	13.82	11.17
Open Circuit Voltage (V _{oc})	45.03	42.51	45.15	42.62	45.28	42.74	45.41	42.87	45.53	42.98
Module Efficiency (%)	20.42		20.64		20.85		21.06		21.27	

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 182mm x 91mm
Dimension (L× W × H)	Length: 2094mm (82.44 inch)
	Width: 1134mm (44.65 inch)
	Height: 35mm (1.38 inch)
Weight	27.0kg (59.52 lbs)
Front 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	-0.28%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.35%/°C
Tolerance	0~+5w
NOCT	45±2°C

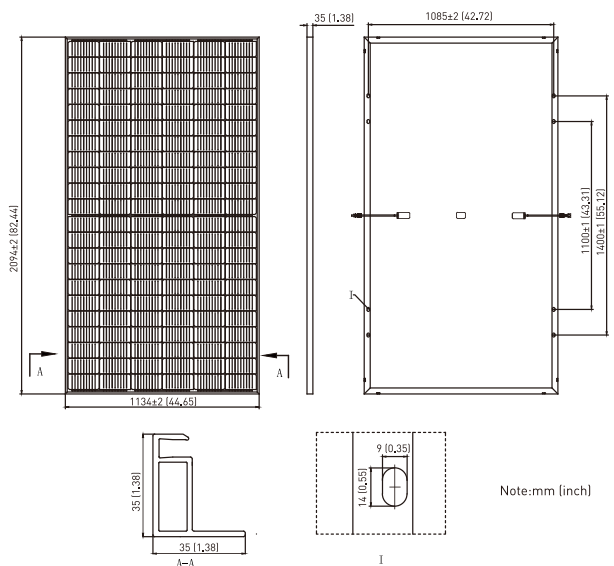
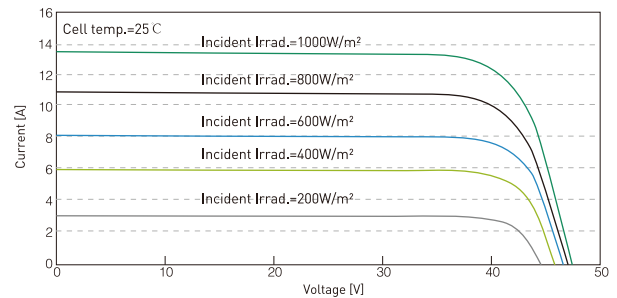
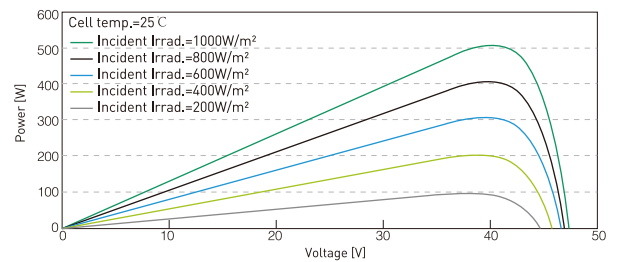
ABSOLUTE MAXIMUM RATING

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 (IEC 61730)	C
Maximum System Voltage	DC 1000V/1500V

PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	155	682

ELECTRICAL CHARACTERISTICS



Note:mm (inch)