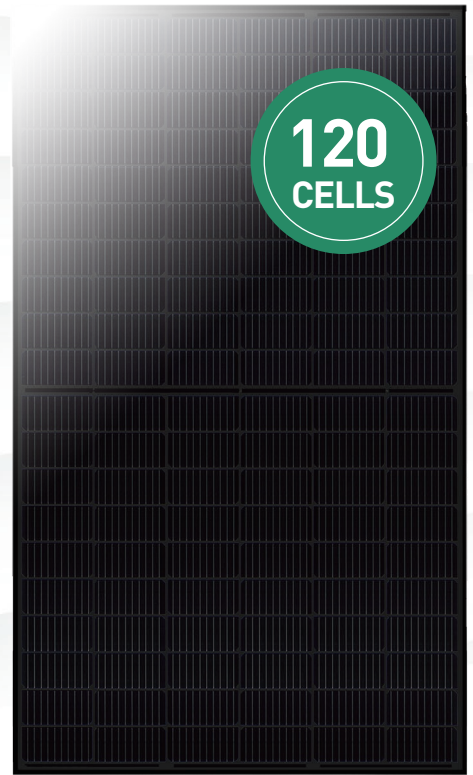


# TWINPLUS MODULE SERIES

## HIGH EFFICIENCY MONO-PERC M6-10B-B

# 440-460W



### OUTSTANDING PRODUCT PERFORMANCE

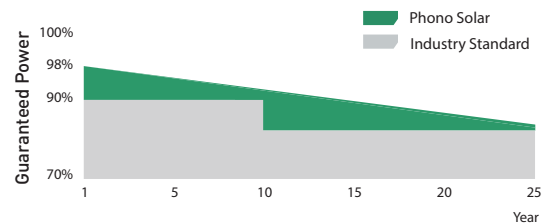
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to  $45 \pm 2^{\circ}\text{C}$
- Higher power generation with multi-busbar and half-cut 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



15-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

ISO 45001:2018 / International standards for occupational health & safety



Bloomberg Tier<sup>1</sup>  
NEW ENERGY FINANCE



## 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	
Rated Power (P <sub>mpp</sub> )	440	327	445	331	450	335	455	339	460	342	
Rated Current (I <sub>mpp</sub> )	12.97	10.48	13.06	10.55	13.15	10.63	13.24	10.70	13.33	10.77	
Rated Voltage (V <sub>mpp</sub> )	33.93	31.24	34.08	31.37	34.23	31.51	34.37	31.64	34.51	31.78	
Short Circuit Current (I <sub>sc</sub> )	13.52	10.92	13.62	11.00	13.72	11.09	13.82	11.17	13.92	11.25	
Open Circuit Voltage (V <sub>oc</sub> )	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):Irradiance 1000W/m<sup>2</sup>, AM 1.5, Cell Temperature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 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	24.0kg (52.91 lbs)
Front 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

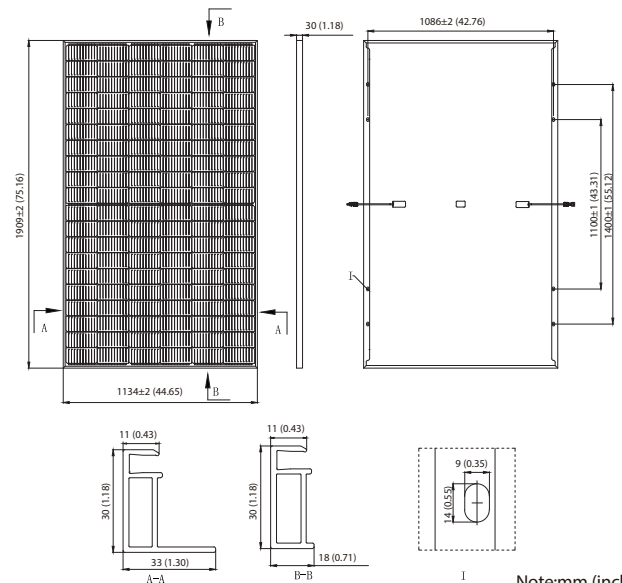
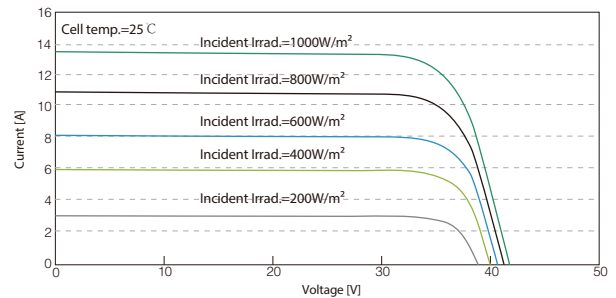
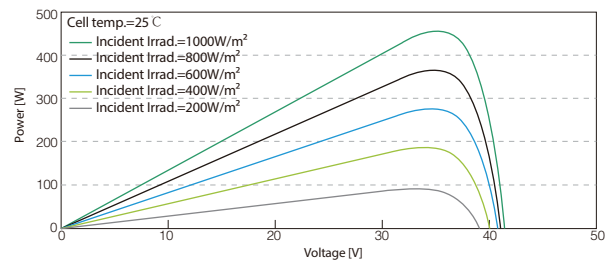
## ABSOLUTE MAXIMUM RATING

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

## PACKING CONFIGURATION

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

## ELECTRICAL CHARACTERISTICS



Note:mm (inch)