



400-420w

Twinplus X Module Series

HIGH EFFICIENCY MONO-PERC M6-10B-B

Bloomberg
NEW ENERGY FINANCE

Tier1



Original Cutless Half-cell Technology In PV Module Industry

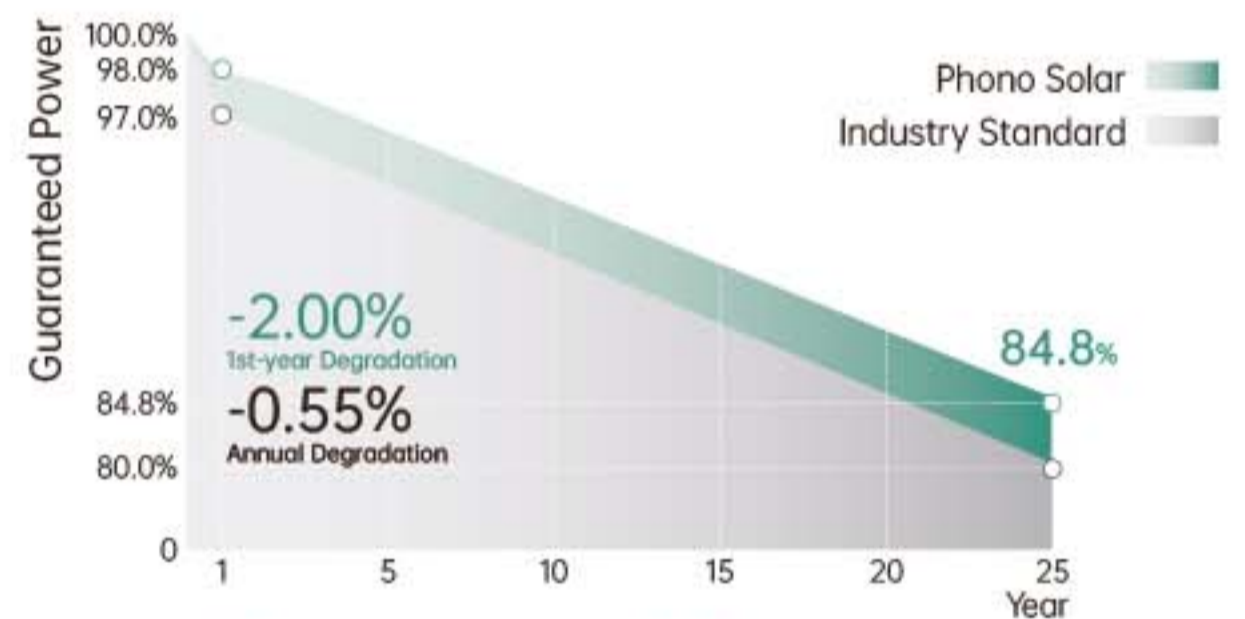
Optimized Module Appearance With Square Mono Wafer

Outstanding Product Performance

- 0.32% additional power yield benefited from square mono wafer
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Higher power generation and better performance under shading effect with multi-busbar and half-cell technology

Trustworthy Quality And Reliability

- Optimized electrical design lowers hot spot risk and operating current
- Minimized risk of microcrack by using industry-leading cutless cell processing technology
- Excellent anti-PID resistance by Nitrous Oxide passivation processing technology



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

ISO 45001
2018 / International standards for occupational health & safety



Electrical Typical Values

Model	1000V		PS400M6-18/VH		PS405M6-18/VH		PS410M6-18/VH		PS415M6-18/VH		PS420M6-18/VH	
	1500V		PS400M6H-18/VH		PS405M6H-18/VH		PS410M6H-18/VH		PS415M6H-18/VH		PS420M6H-18/VH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	400	301	405	305	410	309	415	313	420	316		
Rated Current (Impp)	12.97	10.46	13.06	10.54	13.15	10.61	13.24	10.68	13.33	10.75		
Rated Voltage (Vmpp)	30.85	28.81	31.02	28.97	31.18	29.12	31.35	29.28	31.51	29.43		
Short Circuit Current (Isc)	13.52	10.91	13.62	10.99	13.72	11.07	13.82	11.15	13.92	11.23		
Open Circuit Voltage (Voc)	36.87	34.95	37.05	35.12	37.23	35.29	37.42	35.47	37.61	35.65		
Module Efficiency (%)	20.48		20.74		21.00		21.25		21.51			

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: 1722mm (67.80 inch) Width: 1134mm (44.65 inch) Height: 30mm (1.18 inch)
Weight	21.5kg (47.39 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
Tolerance	0~+3%
NOCT	45±2°C

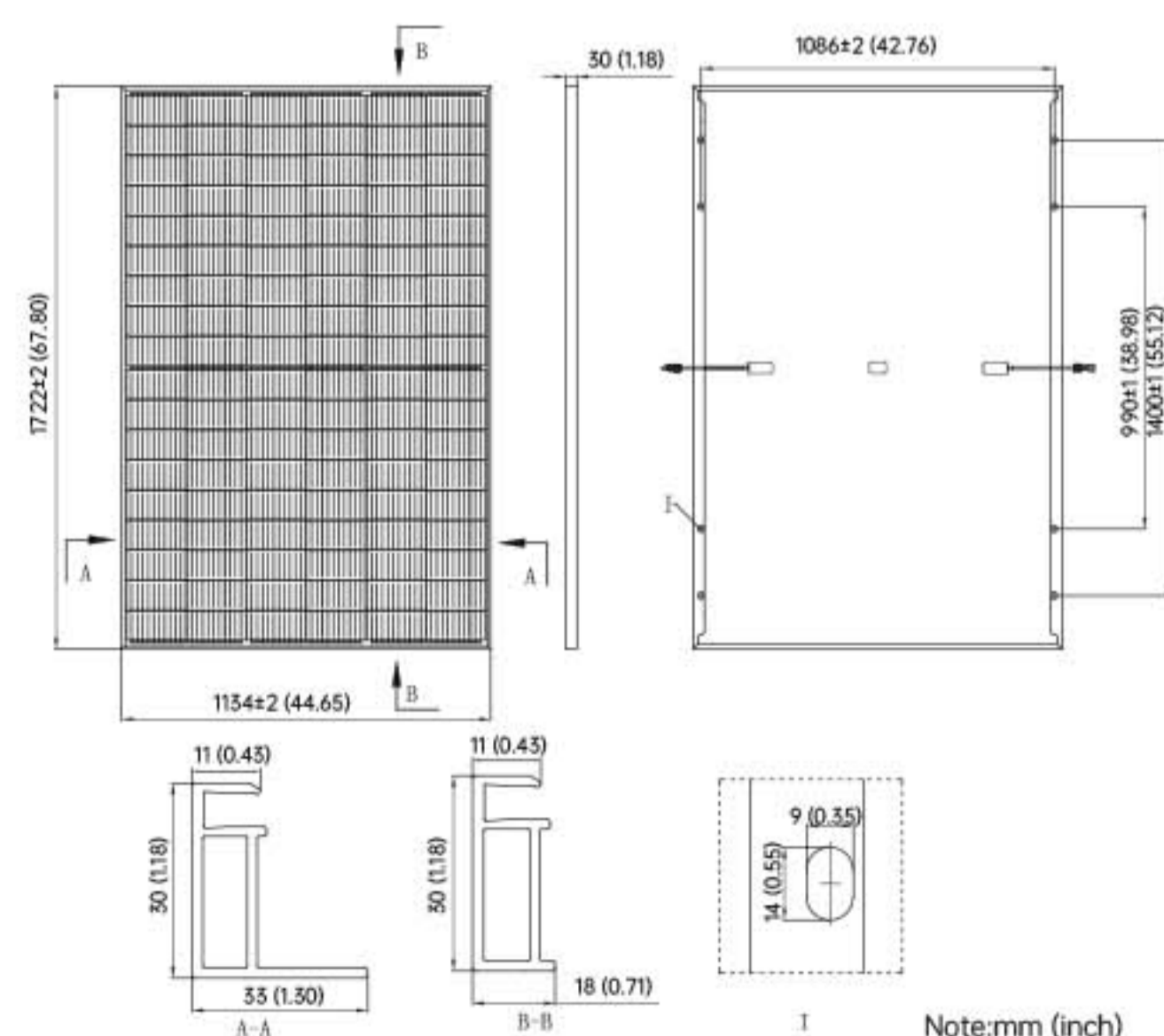
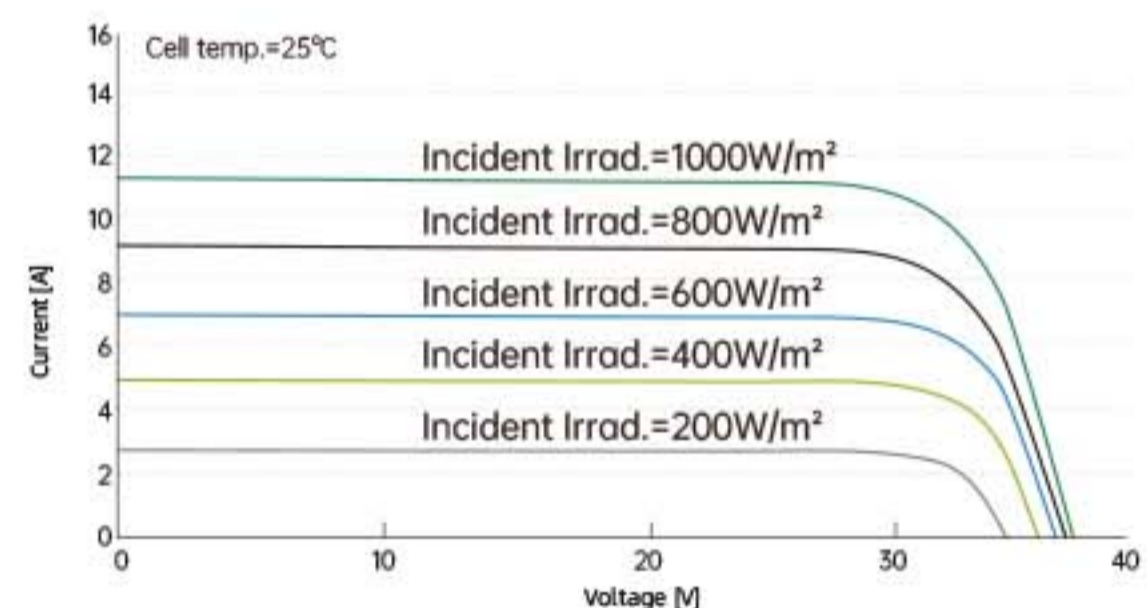
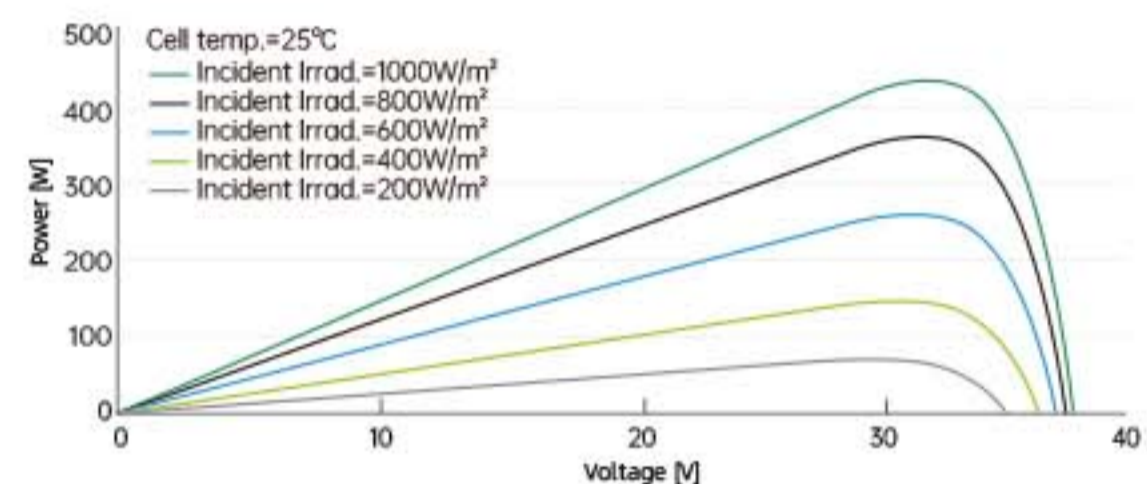
Absolute Maximum Rating

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	216	936
Pcs/Pallet	36	36
Pallets/Container	6	26

Electrical Characteristics



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