540-560w

Twinplus Module Series

HIGH EFFICIENCY MONO-PERC BM6-10B-T

Bloomberg NEW ENERGY FINANCE Tier1 TOP PERFORMER 2023 PVEL kiwa PV MODULE RELIABILITY SCORECARD

Extraordinary Product Performance

- Up to 25% additional power yield benefited from bifacial technology
- Lower power loss in cell connection and under shading conditions
- Competitive high-temperature performance with ameliorated temperature coefficient
- Higher power generation with multi-busbar and half-cut technology

High Quality Reliability

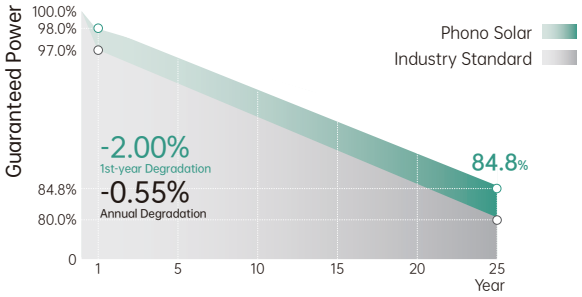
- Optimized electrical design lowers hot spot risk and operating current
- Corrosion resistance guarantees enhanced reliability in harsh environments
- Minimized Risk of microcrack and snail trail

Easy Installation

- Framed design improves mounting and racking method compatibility
- Safer and easier handling during transportation and installation

PID Resistant

- Industry-leading cell processing techonology and electrical design ensures 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

ISO 45001
2018 / International standards for occupational health & safety

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Electrical Typical Values

Model	1000V	PS540M8-24/TH		PS545M8-24/TH		PS550M8-24/TH		PS555M8-24/TH		PS560M8-24/TH	
	1500V	PS540M8H-24/TH		PS545M8H-24/TH		PS550M8H-24/TH		PS555M8H-24/TH		PS560M8H-24/TH	
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)		540	402	545	405	550	409	555	413	560	417
Rated Current (Impp)		13.06	10.55	13.15	10.63	13.24	10.70	13.33	10.77	13.42	10.84
Rated Voltage (Vmpp)		41.35	38.07	41.45	38.16	41.55	38.25	41.64	38.34	41.73	38.42
Short Circuit Current (Isc)		13.62	11.00	13.72	11.09	13.82	11.17	13.92	11.25	14.02	11.33
Open Circuit Voltage (Voc)		49.39	46.62	49.49	46.72	49.59	46.81	49.69	46.91	49.79	47.00
Module Efficiency (%)		20.90		21.10		21.29		21.48		21.68	

STC(Standard Testing Conditions): Irradiance 1000W/m², AM 1.5, Cell Temerature 25°C

NOCT (Nominal Operation Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

Electrical Characteristics With Different Power Bin

5%	Maximum Power (W)	559	564	569	574	580
	Module Efficiency (%)	21.64	21.84	22.04	22.24	22.44
15%	Maximum Power (W)	597	602	608	613	619
	Module Efficiency (%)	23.10	23.31	23.53	23.74	23.95
25%	Maximum Power (W)	635	640	646	652	658
	Module Efficiency (%)	24.56	24.79	25.02	25.24	25.47

Mechanical Characteristics

Cell Type	Monocrystalline 182mm x 91mm
Dimension (L × W × H)	Length: 2278mm (89.69 inch) Width: 1134mm (44.65 inch) Height: 35mm (1.38 inch)
Weight	28.0kg (61.72 lbs)
Glass	3.2mm toughened glass
Frame	Anodized Aluminium Alloy
Cable (Including Connector)	4mm² (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
Bifaciality	70±5%

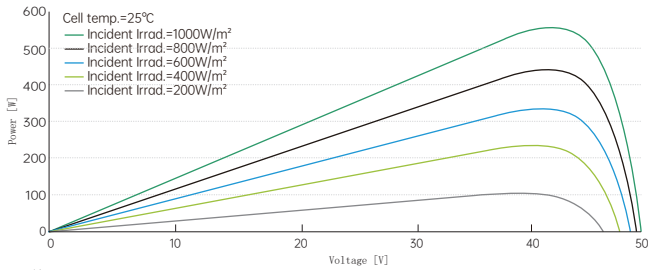
Absolute Maximum Rating

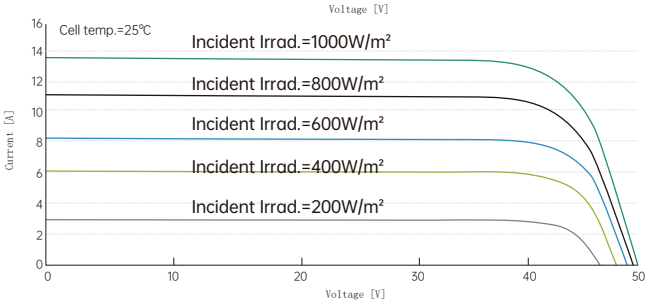
Operating Temperature	From -40 to + 85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	30A
PV Module Classification	II
Fire Rating (IEC61730)	C
Maximum System Voltage	DC 1000V/1500V

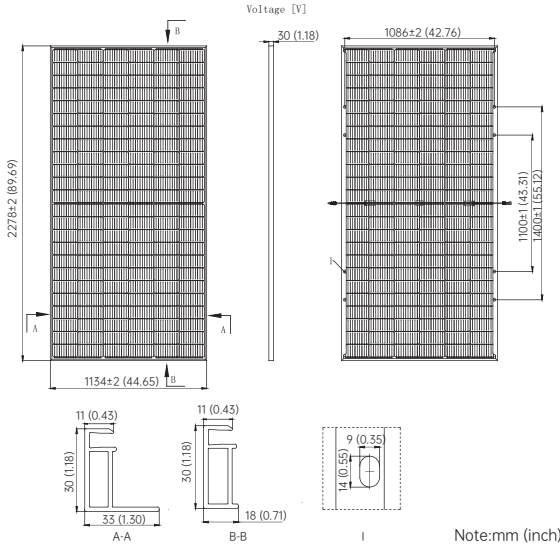
Packing Configuration

Container	20' HQ	40' HQ
Pieces/Container	155	620

Electrical Characteristics







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