

TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC M6-10B-R

530-550W



OUTSTANDING PRODUCT PERFORMANCE

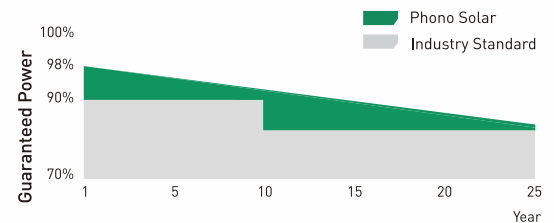
- Competitive high-temperature performance with ameliorated temperature coefficient
- Minimized power loss in cell connection
- Better performance under shading effect
- Decreased nominal operating cell temperature to $43 \pm 2^{\circ}\text{C}$
- Higher power generation with multi-busbar and half-cut 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	PS530M6-24/TH		PS535M6-24/TH		PS540M6-24/TH		PS545M6-24/TH		PS550M6-24/TH	
	PS530M6H-24/TH	PS535M6H-24/TH	PS540M6H-24/TH	PS545M6H-24/TH	PS550M6H-24/TH	STC	NOCT	STC	NOCT	STC
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (P _{mpp})	530	401	535	405	540	409	545	412	550	416
Rated Current (I _{mpp})	12.86	10.38	12.92	10.43	12.98	10.48	13.04	10.53	13.10	10.57
Rated Voltage (V _{mpp})	41.22	38.64	41.41	38.82	41.61	39.00	41.80	39.18	41.99	39.36
Short Circuit Current (I _{sc})	13.46	10.86	13.54	10.93	13.62	10.99	13.70	11.06	13.78	11.12
Open Circuit Voltage (V _{oc})	49.06	45.70	49.13	45.77	49.20	45.83	49.27	45.90	49.34	45.97
Module Efficiency (%)	20.56		20.76		20.95		21.14		21.34	

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: 2273mm (89.49 inch)
	Width: 1134mm (44.65 inch)
	Height: 40mm (1.57 inch)
Weight	29.0kg (63.93 lbs)
Front Glass	3.2mm Toughened Glass
Frame	Anodized Aluminium Alloy
Cable	4mm ² (IEC), Length:350mm (vertical) 1300mm (horizontal) or Customized Length
Junction Box	IP 68 Rated

TEMPERATURE RATINGS

Voltage Temperature Coefficient	-0.30%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.38%/°C
Tolerance	0~+5w
NOCT	43±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	20A
PV Module Classification	II
Fire Rating (IEC 61730)	C
Module Fire Performance (UL 1703)	Type 4
Maximum System Voltage	DC 1000V/1500V

PACKING CONFIGURATION

Container	20' GP	40' HQ
Pieces/Container	205	540

ELECTRICAL CHARACTERISTICS

