Phono Solar

TWINPLUS MODULE SERIES

HIGH EFFICIENCY MONO-PERC

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 45 ± 2°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

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-quidelines for

increased confidence in PV module design qualification and type approval













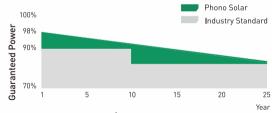












12-year Product Warranty 25-year Linear Performance Warranty







ELECTRICAL TYPICAL VALUES										
Model		6-24/TH 5H-24/TH		6-24/TH 5H-24/TH	PS540M PS540M	6-24/TH 6H-24/TH		6-24/TH 6H-24/TH	PS550M PS550M	•
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp)	530	394	535	398	540	402	545	405	550	409
Rated Current (Impp)	12.88	10.41	12.97	10.48	13.06	10.55	13.15	10.63	13.24	10.70
Rated Voltage (Vmpp)	41.15	37.89	41.25	37.98	41.35	38.07	41.45	38.16	41.55	38.25
Short Circuit Current (Isc)	13.42	10.84	13.52	10.92	13.62	11.00	13.72	11.09	13.82	11.17
Open Circuit Voltage (Voc)	49.19	46.44	49.29	46.53	49.39	46.62	49.49	46.72	49.59	46.81
Module Efficency (%)	20.51		20.70		20.89		21.09		21.28	

 $STC (Standard\ Testing\ Conditions) : Irradiance\ 1000W/m^2,\ AM\ 1.5,\ Cell\ Temperature\ 25'C$

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

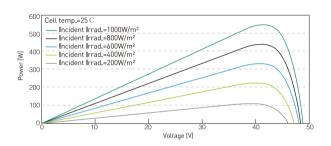
MECHANICAL CHARACTERISTICS			
Cell Type	Monocrystalline 182mm x 91mm		
	Length: 2279mm (89.72 inch)		
Dimension (L× W × H)	Width: 1134mm (44.65 inch) Height: 35mm (1.38 inch)		
Weight	29.0kg (63.93 lbs)		
Front Glass	3.2mm Toughened Glass		
Frame	Anodized Aluminium Alloy		
Cable (Including Connector)	4mm² (IEC), (+):450mm,(-):250mm or Customized Length		
Junction Box	IP 68 Rated		

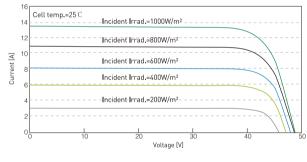
TEMPERATURE RATINGS		
Voltage Temperature Coefficient	-0.28%/'C	
Current Temperature Coefficient	+0.05%/'C	
Power Temperature Coefficient	-0.35%/'C	
Tolerance	0~+5w	
NOCT	45±2'C	

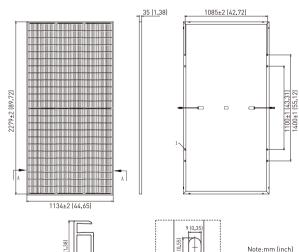
ABSOLUTE MAXIMUM RATING	
Operating Temperature	From -40 to +85°C
Hail Diameter @ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	25A
PV Module Classification	II
Fire Rating (IEC 61730)	С
Maximum System Voltage	DC 1000V/1500V

PACKING CONFIGURATION		
Container	20' GP	40' HQ
Pieces/Container	155	620

ELECTRICAL CHARACTERISTICS











Note:mm (inch)



PHONO SOLAR TECHNOLOGY CO.,LTD reserves the right to make necessary adjustments to the information described herein at any time without further notice. The specifications and certificates contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Please be sure to use the most recent version of data.