PROPSOLAR

PS-MT54HC SERIES

-182/390-405

MONOCRYSTALLINE SILICON MODULE

Key Features

- Propsolar PERC Mono high efficiency modules series by integrating 182mm with multi-busbar and half cut cell technologies. The panel combined creative technology effectively and extremely improved the module efficiency and power output.
- High power output of more than 405W and module efficiency up to 20.94%
- Anti-reflective and anti-soiling surface reduces power loss from dirt and dust
- Outstanding performance in low-light irradiance environments
- Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)
- High salt and ammonia resistance

Reliable Quality

- Positive power tolerance: 0~+3%
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

Comprehensive Certificates

- CE, IEC61215, IEC61730, IEC61701, IEC62716, IEC62804
- ISO 9001: 2008: Quality management systems

Shanghai Propsolar New Energy Co.,Ltd

Propsolar was founded in May,2010 with professional production of crystal silicon solar cell,Photovoltaic (PV) modules,solar system,solar water pump and solar street light. We specialize in the development and utilization of new energy to provide one stop service and total solution to all global customers.

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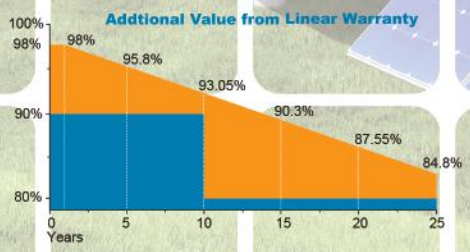
Superior Warranty

- 15-year product warranty
- 25-year linear power output warranty



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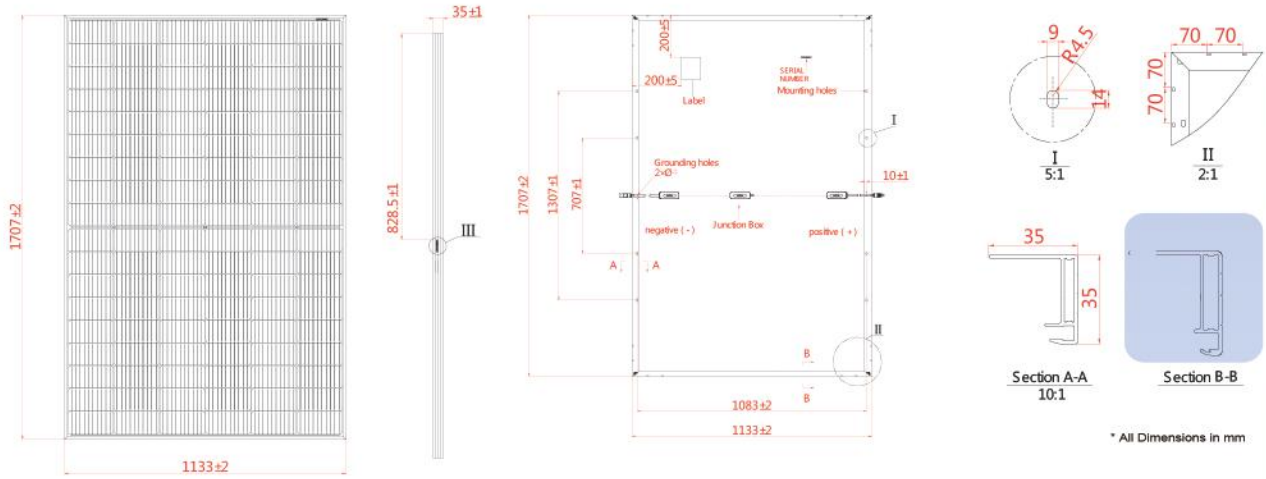


MECHANICAL PARAMETERS

Cell (mm)	Mono 182x91
Weight (kg)	28.5 (approx)
Dimensions (L×W×H) (mm)	1707×1133×35mm
Cable Cross Section Size (mm^2)	4
No. of Cells and Connections	108
No. of Diodes	IP68, 3 diodes
Junction Box Connector	MC4 Compatible
Output Cables	Portrait: 255mm(+)/355mm(-); Landscape: 1200mm

WORKING CONDITIONS

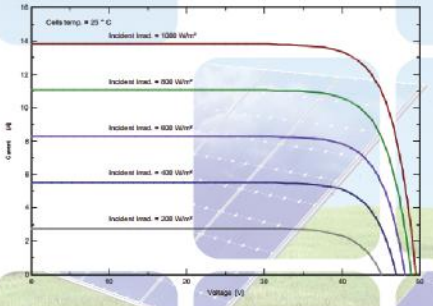
Maximum System Voltage	DC 1500V(IEC)
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	25A
Maximum Static Load, Front (e.g., snow and wind) Maximum Static Load, Back (e.g., wind)	5400Pa (112 lb/ft^2) 2400Pa (50 lb/ft^2)
NOCT	45±2℃
Application Class	Class A

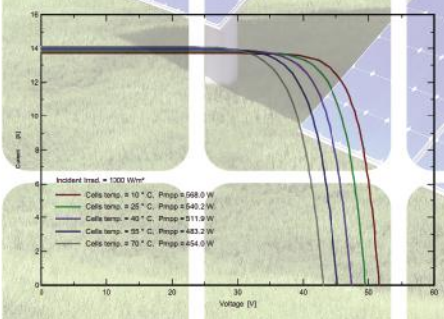
ELECTRICAL PARAMETERS

TYPE	PS-MT54390HC	PS-MT54395HC	PS-MT54400HC	PS-MT54405HC
Rated Maximum Power at STC (W)	390	395	400	405
Open Circuit Voltage (Voc/V)	36.85	36.98	37.05	37.20
Maximum Power Voltage (Vmp/V)	30.57	30.68	30.79	39.91
Short Circuit Current (Isc/A)	13.42	13.51	13.62	13.71
Maximum Power Current (Imp/A)	12.76	12.89	13.01	13.11
Module Efficiency [%]	20.17%	20.42%	20.68%	20.94%
Power Tolerance (W)	0~+3%			
Temperature Coefficient of Isc (αIsc)	+0.05%/°C			
Temperature Coefficient of Voc (βVoc)	-0.28%/°C			
Temperature Coefficient of Pmax (γPmp)	-0.35%/°C			
STC	Irradiance 1000W/m^2, Cell Temperature 25℃, Air Mass 1.5			

I-V CURVE

I-V Curve





PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per Pallet	31+4	31
Pallets per Container	6	26
Pieces per Container	210	806

Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

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