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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Shanghai Propsolar New Energy Co., Ltd.**

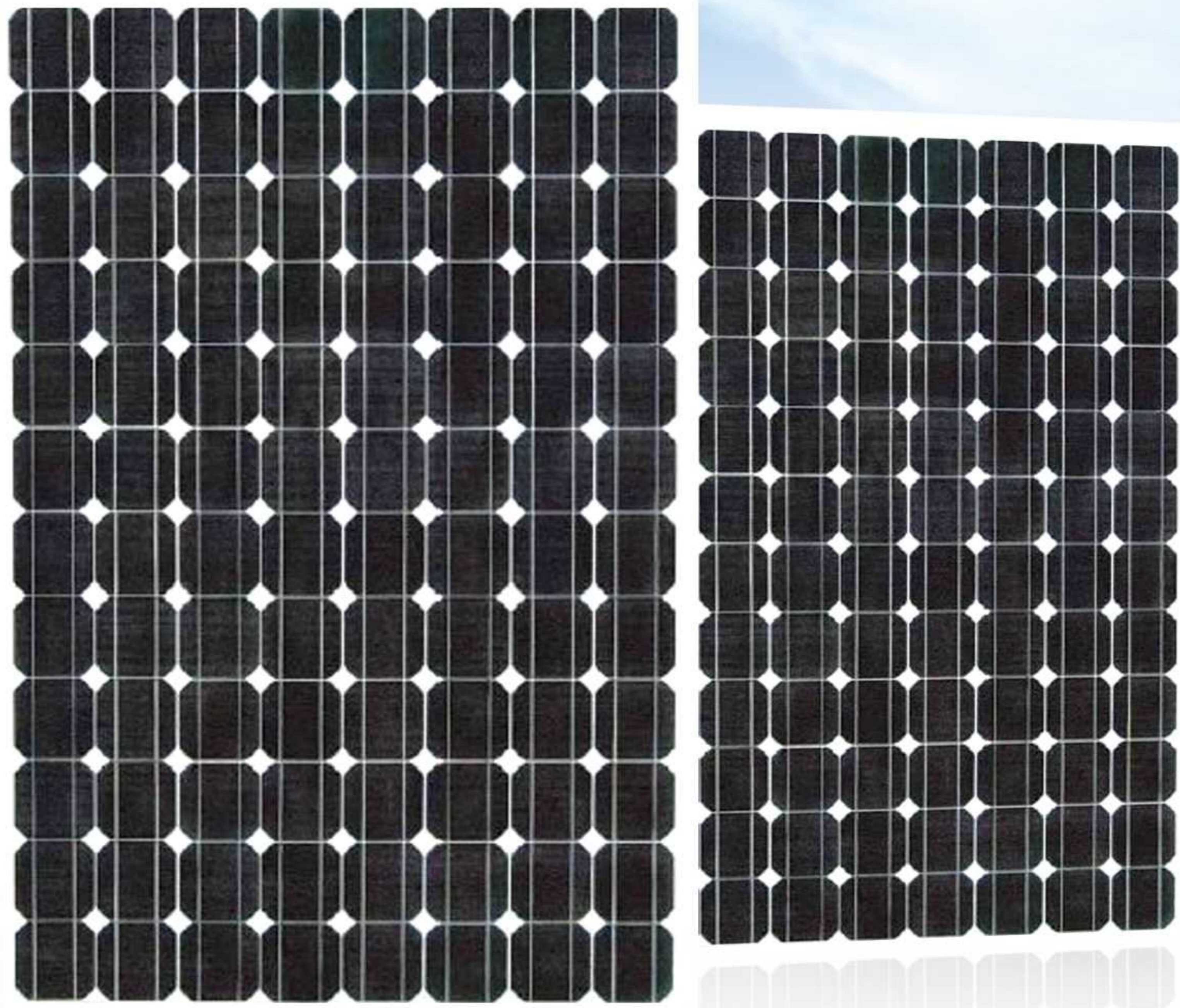
**PS-M596**

**PS-M596225**

Also available on the web at

[EnergyPal.com/shanghai-propsolar-new-energy-co-ltd-solar-panels/ps-m596225](http://EnergyPal.com/shanghai-propsolar-new-energy-co-ltd-solar-panels/ps-m596225)





# PS-M596 SERIES

## PRODUCT DESCRIPTION

PS-M596 Series solar module is connected in series by 96 pieces of 125mm×125mm Mono Crystalline silicon cells. The product performance is produced according to IEC61215, IEC61730 international standard. PS-M596 Series solar module includes 220W, 225W, 230W, 235W, 240W, 245W, 250W, 255W, 260W. It can also be tailored to special requirements of customers.

## MODULE CHARACTERISTICS

Manufactured according to international quality and Environment Management System (ISO9001, ISO14001)  
High efficiency crystalline silicon solar cells  
High transmission low iron tempered glass, strong mechanical resistance  
Anti-ageing EVA and excellent anti-climate back sheet  
Anodized aluminum frame improves load resistance capabilities for heavy wind loads.  
Standard waterproof junction box  
High endurance to different weather  
Good and friendly package with less transportation and storage space.

## Warranty

10 years limited manufacturing warranty  
10 years for 90% of warranted minimum power  
25 years for 80% of warranted minimum power





## ELECTRIC CHARACTERISTICS

CELL TYPE	125 X 125 MONO SOLAR CELL								
ITEM	PS-M596220	PS-M596225	PS-M596230	PS-M596235	PS-M596240	PS-M596245	PS-M596250	PS-M596255	PS-M596260
Maximum Power(Wp)	224.9	229.9	234.9	239.9	244.9	249.9	254.9	259.9	264.9
Open circuit Voltage (Voc)	57.7	58.1	58.4	58.7	59.0	59.2	59.5	59.7	59.9
Short circuit Current (Isc)	5.05	5.15	5.25	5.35	5.45	5.50	5.60	5.70	5.80
Maximum Power Voltage (Vm)	47.3	47.5	47.6	47.8	48.0	48.2	48.3	48.3	48.4
Maximum Power Current (Im)	4.65	4.74	4.83	4.92	5.00	5.08	5.18	5.28	5.37
Cell Efficiency [%]	15.9	16.26	16.62	16.98	17.3	17.66	17.94	18.26	18.58
Module Efficiency [%]	12.94	13.24	13.53	13.83	14.12	14.41	14.71	15.00	15.30
Maximum Series Fuse	10A								
No. of Diode	4								
Maximum system voltage	1000 VDC								
Number of cells	96 (8×12)								
Output tolerance	±3%								
Standard Test conditions	STC: AM 1.5, 1000w/m <sup>2</sup> , Module Temperature 25°C								
Size of module	1602×1061×50mm								
Installing hole	800×1011、1300×1011mm								
Weight per piece	20.5Kg								
Cable type and Length	4 mm <sup>2</sup> , 1200mm								
Type of Connector	Type IV								

## TEMPERATURE CHARACTERISTICS

Type	PS-M596 Series
NOCT**	45±2 °C
Temperature Coefficient of Pmax	-0.5 % / °C
Temperature Coefficient of Voc	-0.34 % / °C
Temperature Coefficient of Isc	0.05 % / °C
Operating Temperature	-40°C to +85°C

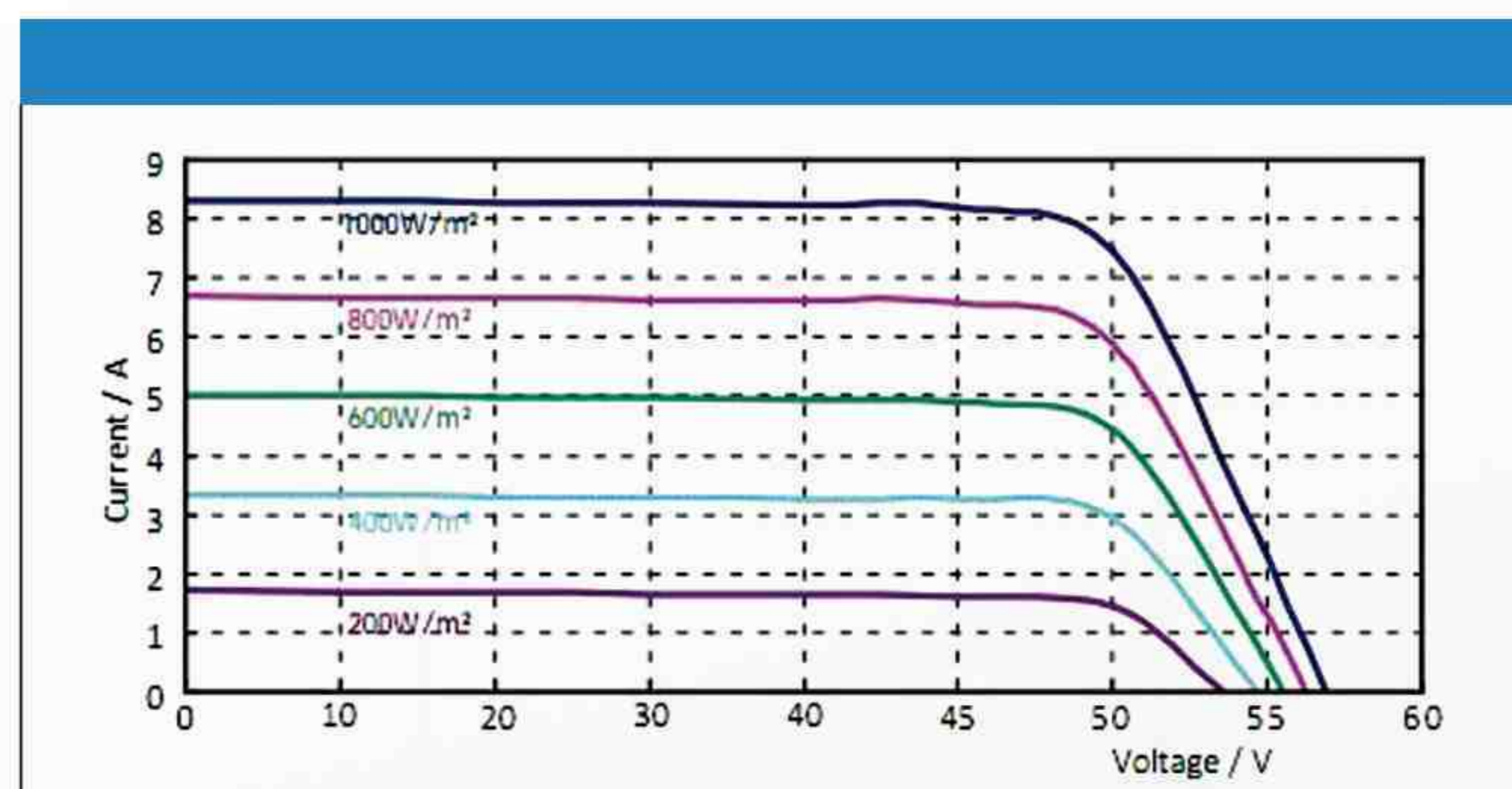
## MECHANICAL CHARACTERISTICS

Type	PS-M596 Series
Solar Cells	monocrystalline cells 125mm
Front Cover	3.2mm thick, low iron tempered glass
Back Cover	TPT/DNP
Encapsulant	EVA
Frame	Anodized aluminium alloy, double wall
Diodes	Bypass diodes serviceable
Junction Box	IP65 rated
Connector	MC4 or compatible connector
Cables	Length: 1200 mm / Section: 4.0mm <sup>2</sup>
Dimension	1602×1061×50mm
Weight	20.5Kg
Max.Load	5400Pa

## PACKING CONFIGURATION

Type	PS-M596 Series
Packing Configuration	28boxes / 40ft
Quantity / Pallet	18pcs / pallet / box
Loading Capacity	216 pcs. / 20ft 504 pcs. / 40ft 588 pcs. / 40ft (H)

## IV CURVE AT DIFFERENT IRRADIANCE LEVELS



## DIMENSIONS

