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Solar Panel Guide Specification Data Sheet

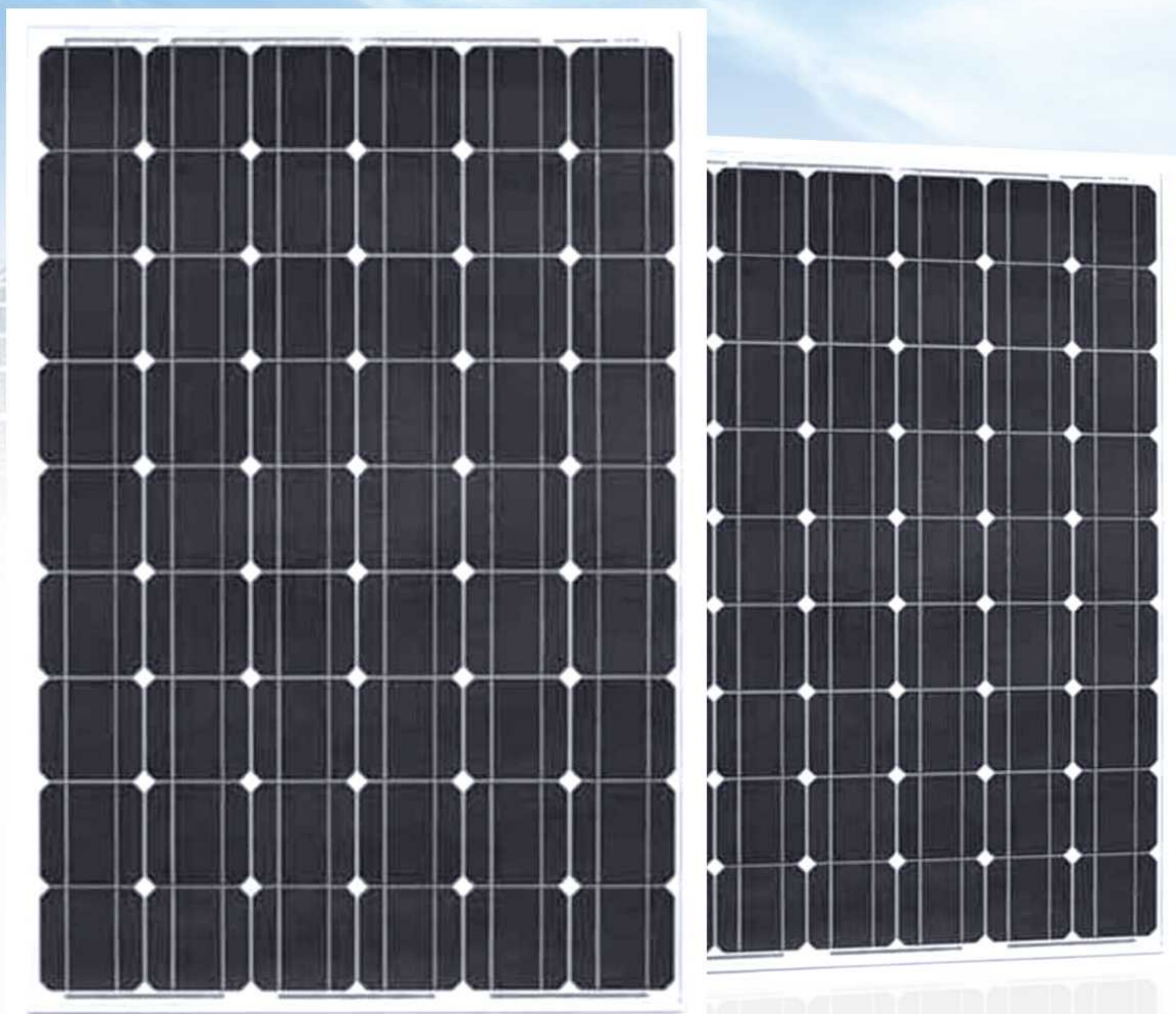
Shanghai Propsolar New Energy Co., Ltd.

PS-M654

PS-M654230

Also available on the web at

EnergyPal.com/shanghai-propsolar-new-energy-co-ltd-solar-panels/ps-m654230



PS-M654 SERIES

PRODUCT DESCRIPTION

PS-M654 Series solar module is connected in series by 54 pieces of 156mm×156mm Mono Crystalline silicon cells. The product performance is produced according to IEC61215, IEC61730 international standard. PS-M654 Series solar module includes 190W, 195W, 200W, 205W, 210W, 215W, 220W, 225W, 230W. 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	156 X 156 MONO SOLAR CELL								
ITEM	PS-M654190	PS-M654195	PS-M654200	PS-M654205	PS-M654210	PS-M654215	PS-M654220	PS-M654225	PS-M654230
Maximum Power(Wp)	194.9	199.9	204.9	209.9	214.9	219.9	224.9	229.9	234.9
Open circuit Voltage (Voc)	31.7	32.0	32.2	32.5	32.9	33.3	33.6	34.1	34.4
Short circuit Current (Isc)	7.90	8.05	8.15	8.35	8.55	8.70	8.85	8.95	9.10
Maximum Power Voltage (Vm)	26.0	26.2	26.5	26.7	26.8	27.0	27.2	27.5	27.7
Maximum Power Current (Im)	7.31	7.44	7.55	7.68	7.84	7.96	8.09	8.18	8.30
Cell Efficiency [%]	14.91	15.3	15.69	16.08	16.47	16.87	17.26	17.65	18.04
Module Efficiency [%]	12.95	13.29	13.63	13.97	14.31	14.65	14.99	15.34	15.68
Maximum Series Fuse	15A								
No. of Diode	6								
Maximum system voltage	1000 VDC								
Number of cells	54 (6×9)								
Output tolerance	±3%								
Standard Test conditions	STC: AM 1.5, 1000w/m ² , Module Temperature 25°C								
Size of module	1482×990×40mm								
Installing hole	800×940、1300×940mm								
Weight per piece	17Kg								
Cable type and Length	4 mm ² , 1000mm								
Type of Connector	Type IV								

TEMPERATURE CHARACTERISTICS

Type	PS-M654 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

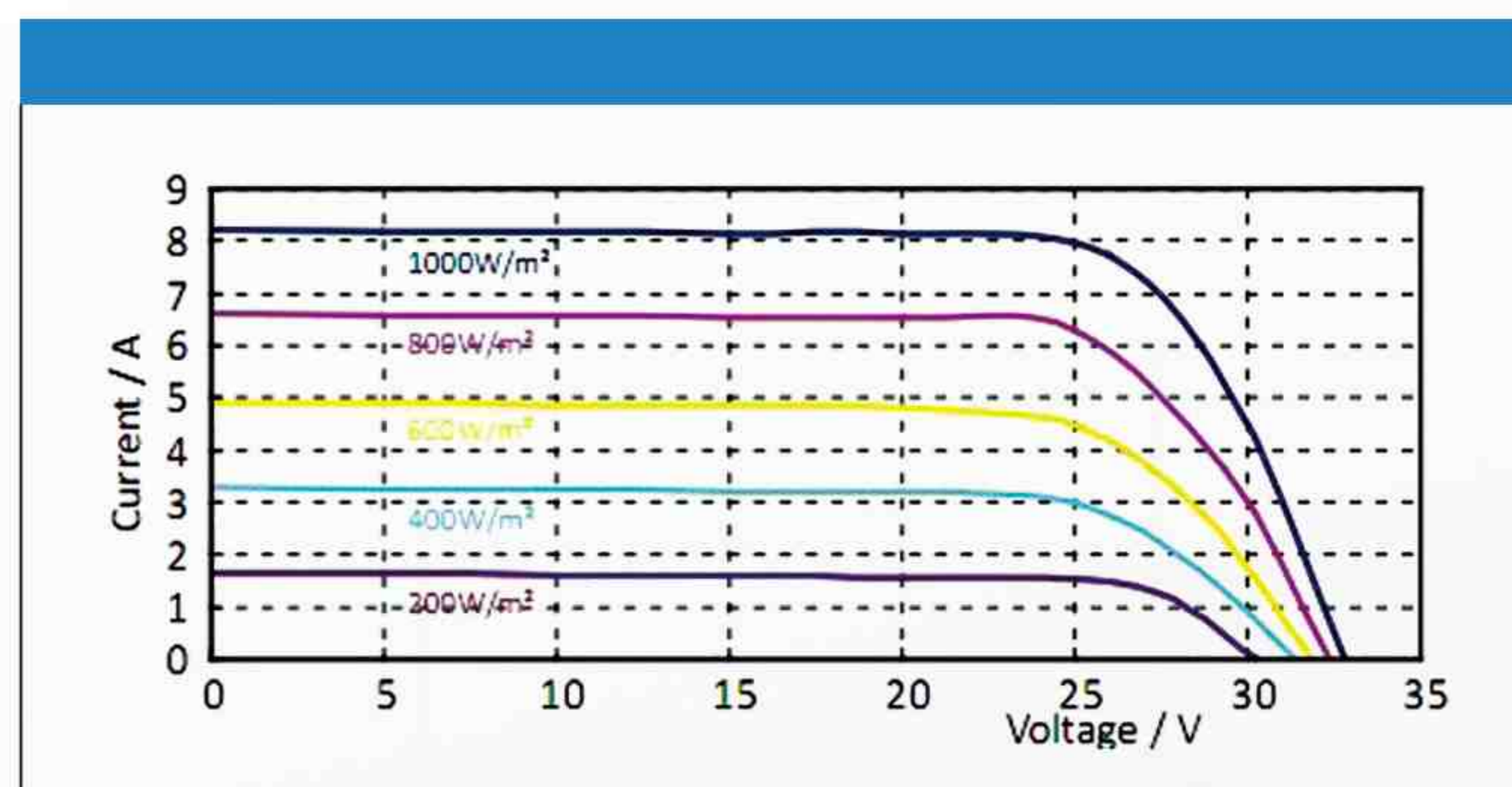
MECHANICAL CHARACTERISTICS

Type	PS-M654 Series
Solar Cells	monocrystalline cells 156mm
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: 1000 mm / Section: 4.0mm ²
Dimension	1482×990×40mm
Weight	17Kg
Max.Load	5400Pa

PACKING CONFIGURATION

Type	PS-M654 Series
Packing Configuration	30boxes / 40ft
Quantity / Pallet	25pcs / pallet / box
Loading Capacity	350 pcs. / 20ft
	750 pcs. / 40ft
	810 pcs. / 40ft (H)

IV CURVE AT DIFFERENT IRRADIANCE LEVELS



DIMENSIONS

