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Solar Panel Guide Specification Data Sheet

Rocsolar New Energy Co., Ltd.

6M-275-300

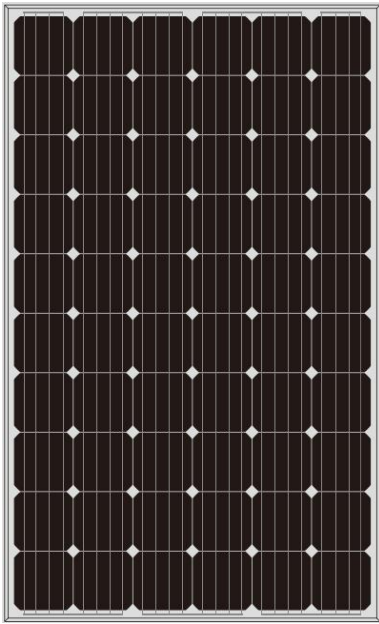
6M-290

Also available on the web at
EnergyPal.com/rocsolar-new-energy-co-ltd-solar-panels/6m-290



MONOCRYSTALLINE SILICON MODULE 285WP SERIE

6M-275 6M-280 6M-285 6M-290 6M-295 6M-300



Products Characteristics

- Widely using of the most popular and mature type of modules for off-grid system.
- Leading manufacturing technology in PV industry, strictly control the quality of raw materials and the process of producing.
- 100% EL inspection, ensures modules are defects free.
- Cells binned by current to improve module performance.
- Anti-reflection glass. Not only to increase the light absorption, but also to make the module has the funtion of self-cleaning in water environment, effectively reducing the power loss caused by dust.
- Outstanding performance in low-light irradiance environments.
- Excellent mechanical load resistance: Certified to withstand high wind load(2400pa) and snow loads (5400pa).
- High salt and ammonia resistance.
- Positive power tolerance: 0~+5%.

Warranty

- 10years products warranty.
- 10 years 90%、25 years 80% output power warranty.

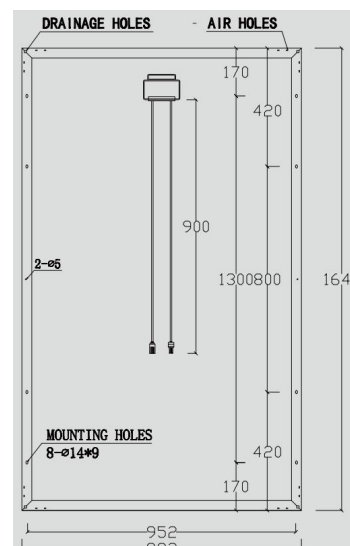
PRODUCTS CERTIFICATION

- ISO9001:2008: ISO Quality management systems
- IEC61215、IEC61730
- CQC Certificate
- CE Certificate
- SGS-TUVCertificate

Raw materials and mechanical para.



	6M-275	6M-280	6M-285	6M-290	6M-295	6M-300
Solar cell dimension (mm)	Mono crystalline156.75X156.75					
Solar cell quantity (pcs)	6X10=60					
Module dimension (mm)	1640X992X35/40					
Module weight (kg)	17.9/18.2					
Glass	3.2mm Tempered Glass					
Encapsulation	EVA					
Backsheet	Multilayer composite					
Aluminium-frame	Silver/black Anodized aluminium alloy					
Junction box	IP65/IP67					
Cable	4mm ² ,900mm					
Connector	MC4 andMC4 Compatible					
Package configuration	30/26pcs/pallet					



Engineering Drawing (Back Side)

Performance parameters

	6M-275	6M-280	6M-285	6M-290	6M-295	6M-300
Maximum system voltage						1000V
Operating temperature						-45℃~+80℃
Maximum series fuse						10A
Maximum static load, front side (e.x. snow, wind)						5400PA
Maximum static load, back side (e.x. wind)						2400PA
Application grade						Class A

Electrical parameters (Standard test condition)

	6M-275	6M-280	6M-285	6M-290	6M-295	6M-300
Rated max. Power(Wp)	275W	280W	285W	290W	295W	300W
Power tolerance						0~+5%
Cell efficiency	18.9%	19.2%	19.5%	19.8%	20.1%	20.3%
Open circuit voltage	38.5V	38.7V	38.8V	39.2V	39.5V	39.7V
Max. power voltage (Vmp)	31.2V	31.4V	31.6V	31.8V	32.0V	32.2V
Max. power current(Isc)	9.34A	9.45A	9.56A	9.67A	9.77A	9.88A
Max. power current(Imp)	8.81A	8.92A	9.02A	9.12A	9.22A	9.32A
Temperature coefficient of Isc						0.06%
Temperature coefficient of Voc						-0.33%
Temperature coefficient of Pmp						-0.45%
Standard test condition	Irradiance: 1000W/M2, Cell temperature 25℃, Spectrum AM: AM1.5					

The Electrical Parameters of the module are the average theory figure under the standard test condition, each one exists difference. Can not be treated as the basis of module delivery.