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Solar Panel Guide Specification Data Sheet

Rocsolar New Energy Co., Ltd.

6P-50-55

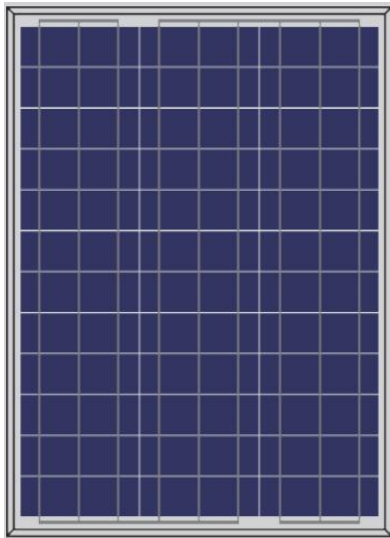
6P-55

Also available on the web at
EnergyPal.com/rocsolar-new-energy-co-ltd-solar-panels/6p-55



POLYCRYSTALLINE SILICON MODULE 50W

6P-50 6P-55



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 performance of salt and ammonia resistance.
- Positive power tolerance: 0~+5W.

Warranty

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

PRODUCTS CERTIFICATION

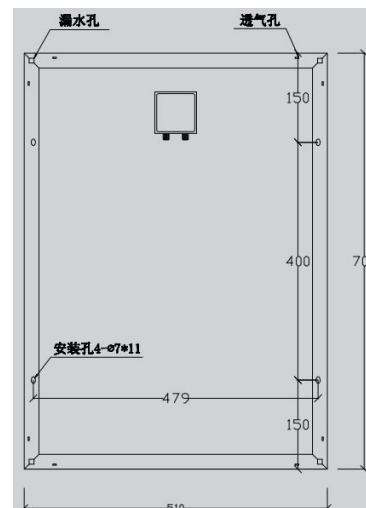
- ISO9001:2008: ISO Quality management systems
- IEC61215、IEC61730
- CQC Certificate
- CE Certificate
- SGS-TUVCertificate

Raw materials and mechanical para.



6P-50 6P-55

| | |
|---------------------------|--|
| Solar cell dimension (mm) | Poly crystalline156X52mm |
| Solar cell quantity (pcs) | 3X12=36 |
| Module dimension (mm) | 700X510X30 |
| Module weight (kg) | 4.5 |
| Glass | 3.2mmTempered Glass |
| Encapsulation | EVA |
| Backsheet | Multilayer composite |
| Aluminium-frame | Silver/black Anodized aluminium alloy |
| Junction box | IP65 |
| Cable | NA, but customized is acceptable |
| Connector | NA, but MC4 or MC4 compatible are acceptable |
| Package configuration | 6pcs/ctn |



Engineering Drawing (Back Side)

Performance parameters

| | 6P-50 | 6P-55 |
|---|-------|-------------|
| Maximum system voltage | | 700V |
| Operating temperature | | -45°C~+80°C |
| 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)

| | 6P-50 | 6P-55 |
|--------------------------------|---|--------|
| Rated max. Power(Wp) | 50W | 55W |
| Power tolerance | | 0~+5W |
| Cell efficiency | 17.2% | 18.9% |
| Open circuit voltage | 22.3V | 22.7V |
| Max. power voltage (Vmp) | 18.2V | 18.6V |
| Short circuit current (Isc) | 2.91A | 3.13A |
| Temperature coefficient of Isc | 2.75A | 2.96A |
| Temperature coefficient of Voc | | +0.06% |
| Temperature coefficient of Pmp | | -0.33% |
| Rated max. Power(Wp) | | -0.45% |
| Rated max. Power(Wp) | Irradiance: 1000W/M2、Cell temperature 25°C、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.