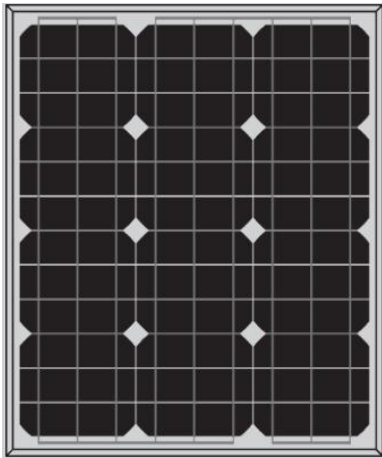




# MONOCRYSTALLINE SILICON MODULE 45WP

## 6M-40 6M-45

### 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 (2400pa).
- 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

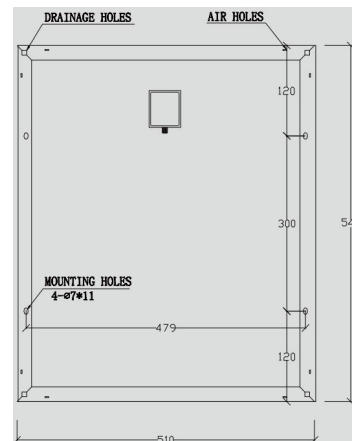
- ISO9001:2008: ISO Quality management systems
- IEC61215、IEC61730
- CQC Certificate
- CE Certificate
- SGS-TUVCertificate

### Raw materials and mechanical para.



#### 6M-40 6M-45

|                           |  |
|---------------------------|--|
| Solar cell dimension (mm) | Mono crystalline156X39mm                     |
| Solar cell quantity (pcs) | 3X12=36                                      |
| Module dimension (mm)     | 540X510X25                                   |
| Module weight (kg)        | 3.3  |
| 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     | 10pcs/ctn                                    |



Engineering Drawing (Back Side)

## Performance parameters

|   | 6M-40       | 6M-45 |
|---|-------------|-------|
| Maximum system voltage                            | 700V        |       |
| Operating temperature                             | -45°C~+80°C |       |
| Maximum series fuse                               | 10A         |       |
| Maximum static load, front side (e.x. snow, wind) | 2400PA      |       |
| Maximum static load, back side (e.x. wind)        | 2400PA      |       |
| Application grade                                 | Class A     |       |

## Electrical parameters (Standard test condition)

|                                | 6M-40   | 6M-45 |
|--------------------------------|---|-------|
| Rated max. Power(Wp)           | 40W   | 45W   |
| Power tolerance                | 0~+5%   |       |
| Cell efficiency                | 18.8%   | 21.0% |
| Open circuit voltage           | 22.7V   | 22.8V |
| Max. power voltage (Vmp)       | 18.6V   | 18.8V |
| Short circuit current (Isc)    | 2.27A   | 2.54A |
| Max. power current(Imp)        | 2.16A   | 2.39A |
| 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°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.