



中国建材国际
CNBM International

Solar Panel Energy (Pty) Ltd

VAT: 4600287983

204 Louis Trichardt Blvd, Vanderbijlpark
inquiry@sp-energy.co.za

M-450

MONOCRYSTALLINE SILICON MODULE

RAW MATERIALS AND MECHANICAL PARAMETERS

M-450

| | |
|------------------------------|---------------------------------|
| Type of Cells(mm) | Mono Half Cell 158.75 X 79.375 |
| NO. of Cells and Connections | 6 x 24=144 |
| Dimensions(mm)(L*W*H) | 2094 x 1038 x 35mm |
| Weight(kg) | 23.5Kg |
| Glass | 3.2mm Tempered Glass |
| Encapsulation | EVA |
| Backsheet | Multilayer Composite |
| Frame | Silver Anodized Aluminium Alloy |
| Junction Box | Ip68 |
| Cable | 4mm ² , 1400mm |
| Connector | Mc4 Compatible |
| Package Configuration | 26pcs/pallet |

PERFORMANCE PARAMETERS

M-450

| | |
|---|-----------|
| Maximum System Voltage | 1500V |
| Operating Temperature | -45~+80°C |
| Maximum Series Fuse | 20A |
| 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)

M-450

| | |
|--------------------------------|--------|
| Power Tolerance | 6M-400 |
| Rated Maximum Power(Mp) | 450W |
| Module Efficiency | 20.7% |
| Open Circuit Voltage(Voc) | 49.30V |
| Maximum Power Voltage(Vmp) | 41.5V |
| Short Circuit Current(Isc) | 11.60A |
| Maximum Power Current(Imp) | 10.85A |
| Temperature Coefficient of Isc | +0.06% |
| Temperature Coefficient of Voc | -0.34% |
| Temperature Coefficient of Pmp | -0.40% |



Widely using of the most popular and mature type of modules for on-grid system.



Leading manufacturing technology in PV industry, strictly controlling 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.



100% EL inspection ensures modules are defects free.



Anti reflective glass. Not only to increase the light absorption, but also to make the module has the function of self-cleaning in water environment, effectively reducing the power loss caused by dust.



Excellent mechanical load resistance: Certified to withstand high wind loads (2400pa) and snow loads(5400pa)



High salt and ammonia resistance.



Positive power tolerance: 0~+5w.



10 years
products
warranty

25 year
power output
warranty

Address: Floor 17-18th, No.4 Building Zhuyu
International Commercial Center
No.9 Shouti South Road, Haidian
District, Beijing 100048, China
Website: www.cnbsolar.com

Standard Test Condition

Irradiance:1000W/M2, Cell Temperature:25°C, Spectrum AM:1.5

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.