

Solar Panel Data Sheet # SP-EN180W

| Description of Specification | Configuration | Units | Model |
|---|---------------|-----------------|----------------------------------|
| | | | EN-SP180W |
| General Data | | | |
| Maximum Power | Pm(W) | Watts | 180W |
| Watt Tolerance | | % | -1% - ±3% |
| Application | | | DC12V |
| Storage & Operating Temperature | | Deg .C | -45~85° C |
| Standard Test Conditions: Cell Temperature:25 Deg. C,Irradiance:1kW/m ² ,Air Mass: 1.5 | | | |
| Voltage & Ampereage | | | |
| Maximum System Voltage | | Volts | 1000VDC |
| Maximum Operating Voltage | Vmp | Volts | 19.3 |
| Maximum Operating Current | Imp | Amps | 9.33 |
| Open Circuit Voltage | Voc | Volts | 24.2 |
| Short Circuit Current | Isc | Amps | 9.98 |
| Solar Cell | | | |
| Cell Type and Diameter | | Monocrystalline | 155mm x 155mm |
| Number of Cells | In Series | | 72(6x12) |
| Temperatures Coefficients | | | |
| Temp Coefficient of Isc | Tk Isc | % per deg.C | 0.037 |
| Temp Coefficient of Voc | Tk Voc | % per deg.C | -0.34 |
| Temp Coefficient of Pmax | Tk Pmax | % per deg.C | -0.48 |
| Normal Op. Cell Temp (NOCT) | | deg.C | 45°C ±2°C |
| Materials & Accessories Data (All Certified by CE and TUV) | | | |
| Junction Box | | | IP65 rated |
| Output Cable:Wire Diameter :4mm ² | Length | mm | 900 |
| Type of Cable Connector | | | MC4 Plug |
| Frame:Aluminum Alloy | | | Anodized |
| Front Glass: Tempered glass | Thickness | | 3.2mm Low Iron,High Transmission |
| Cell Encapsulation Material | EVA | mm | 0.5mm |
| | TPT | mm | 0.3mm |
| Quality Warranty (Output Power) | | | |
| Power Production | 90% | Years | 5 |
| | 80% | Years | 25 |
| Manufacturing | | Years | 5 |
| Dimensions, Packing & Loading | | | |
| Dimensions: LengthxWidthxHeight | | mm | 1482x680x35 |
| Weight | | kg | 11.7 |