



MACRO-SOLAR

MS-P-120W/130W/140W

| Cells | |
|----------------------------|-------------------------|
| Cell Technology | Polycrystalline silicon |
| Number of cells per module | 36 |
| Cell dimensions | 156x156mm |

| Mechanical Data | |
|-----------------------------------|---------------|
| Dimension of the module L x W x H | 1470x680x35mm |
| Weight | 12kg |

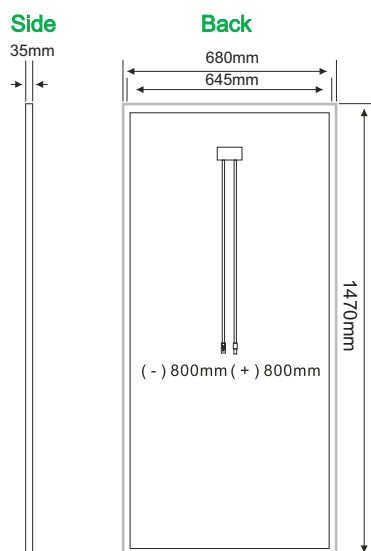
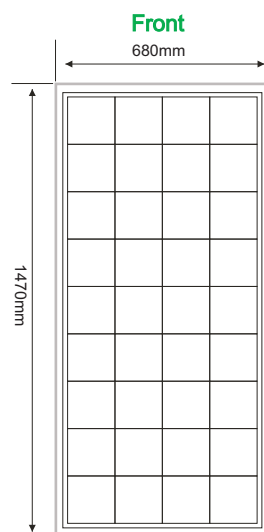
| Electrical data | | | |
|-----------------------------|-----------|-----------|-----------|
| | MS-P-120W | MS-P-130W | MS-P-140W |
| Maximum power | 120W | 130W | 140W |
| Open Circuit Voltage | 21.60V | 21.60V | 21.60V |
| Maximum power point voltage | 17.28V | 17.28V | 17.28V |
| Short circuit current | 7.31A | 7.92A | 8.53A |
| Maximum power point current | 6.95A | 7.53A | 8.10A |

* At Standard Conditions (STC) Irradiance 1000 watt/m², spectrum AM 1,5 at a cell temperature of 25°C.

| Thermal data | |
|--|--------------------------|
| NOCT | 47°C ± 2°C |
| Temperature Coefficient of V _{oc} | - (90 ± 5) mV / °C |
| Temperature Coefficient of I _{sc} | + (0.065 ± 0.015) % / °C |
| Temperature Coefficient of Power | - (0.5 ± 0.05) % / °C |

*NOCT: Normal Operational Temperature in Celsius

| Additional data | |
|-------------------|----------------------|
| Junction box type | (TUV) |
| Cable type | (TUV) |
| Output tolerance | +(-)3% |
| Frame material | Anodized aluminium |
| Front glass | 3.2mm tempered glass |
| By-pass diodes | 3 pieces |



Module Construction

