



MACRO-SOLAR

MS-M-60W/65W/70W

Cells

| | |
|----------------------------|-------------------------|
| Cell Technology | Monocrystalline silicon |
| Number of cells per module | 36 |
| Cell dimensions | 156x78mm |

Mechanical Data

| | |
|-----------------------------------|--------------|
| Dimension of the module L x W x H | 678x768x35mm |
| Weight | 6.5kg |

Electrical data

| | MS-M-60W | MS-M-65W | MS-M-70W |
|-----------------------------|----------|----------|----------|
| Maximum power | 60W | 65W | 70W |
| Open Circuit Voltage | 21.60V | 21.60V | 21.60V |
| Maximum power point voltage | 17.28V | 17.28V | 17.28V |
| Short circuit current | 3.66A | 3.96A | 4.27A |
| Maximum power point current | 3.48A | 3.77A | 4.05A |

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

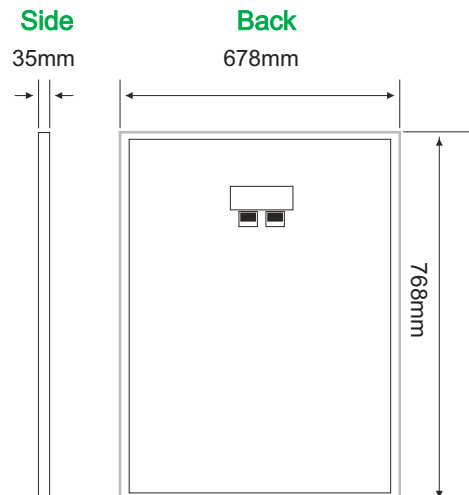
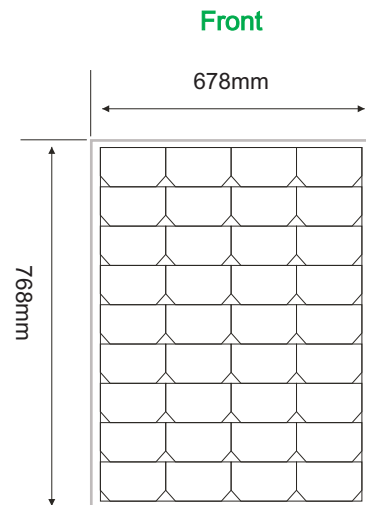
Thermal data

| | |
|--------------------------------------------|--------------------------|
| 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 | 2 pieces |



Module Construction

