



MACRO-SOLAR

MS-M-135W/140W/145W

Cells

Cell Technology	Monocrystalline silicon
Number of cells per module	60
Cell dimensions	125x125mm

Mechanical Data

Dimension of the module L x W x H	1318x810x35mm
Weight	13kg

Electrical data

	MS-M-135W	MS-M-140W	MS-M-145W
Maximum power	135W	140W	145W
Open Circuit Voltage	36.00V	36.00V	36.00V
Maximum power point voltage	28.80V	28.80V	28.80V
Short circuit current	4.94A	5.12A	5.30A
Maximum power point current	4.69A	4.86A	5.04A

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

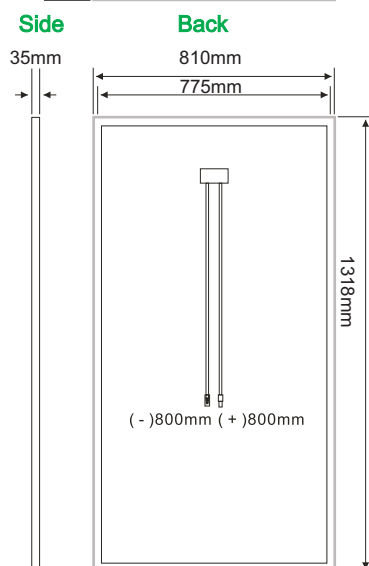
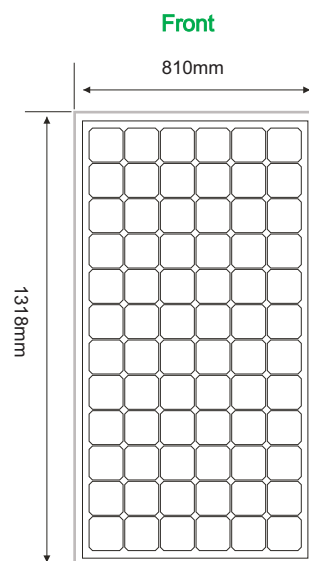
Thermal data

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

