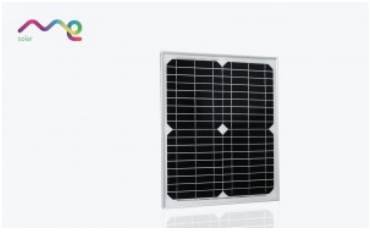
ME SOLAR MODULES

Me Solar solar modules are a high efficiency monocrystalline solar panels that provides free energy for battery charge at 12 or 24 volts, in multiple applications such as in a camper van, boat, house or garnden, as well as off-grid applications.



Panel Me Solar 20 W

Panel Me Solar 30 W

Panel Me Solar 50 W

Panel Me Solar 65 W

Panel Me Solar 80 W

Me Solar solar modules are a high efficiency **monocrystalline solar panels** to provide free energy for charging a 12V or 24V battery in many applications such as in a camper van, boat, house or garden, as well as off-grid for farming, lighting, telecommunications or monitoring equipment.

Me Solar modules are made using Germany SolarWorld mono solar cells.

SolarWorld solar cells have excellent performance characteristics even in low light conditions and higher efficiency and reliability.

Waterproof junction box is fitted with a blocking diode to prevent reverse current from the battery to the solar panel.

Me Solar modules with power higher than 50 W are fitted with 2 x 0.9 m cable specially designed for solar panels to carry high currents with very low power losses.

MC4 connectors are used for easy connectivity between the solar modules and the electronic equipment like solar charge controller.

Me Solar modules uses a 3.2mm thick tempered solar glass which makes it strong and durable.

The long-lasting, high-efficiency, monocrystalline solar cells and the tough, sealed, aluminium frame will give you years and years of consistent, free power.

This solar panel can be used in all weather conditions, including inland, marine applications and under hot or cold climate.

SPECIFICATIONS

		MESM-20 W	MESM-30W	MESM-50W	MESM-65W	MESM-80W	MESM-100W	MESM-120W	MESM-180W
Number of cells		36 (2x18)	36 (2x18)	36 (3x12)	36 (3 x 12)	36 (4x9)	36 (4x9)	33 (3 x 11)	42 (3x14)
Cell Type		Monorystaline							
Maximum System Voltage		600 Vdc (IEC)					1000 Vdc (IEC)		
Electrical specifications *									
Nominal Power	Pmax	20 Wp	30 Wp	50 Wp	65 W	80 Wp	100 Wp	120 W	180 W
Power output tolerance		± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%	± 3%
Maximum power voltage	Vmpp	17,80 V	17,80 V	17,80 V	20,90 V	17,80 V	17,80 V	19,10 V	20,9 V
Open circuit voltage	Voc	22,30 V	22,30 V	22,30 V	24,50 V	22,30 V	22,30 V	22,30 V	24,5 V
Maximum power current	Impp	1,12 A	1,69 A	2,81 A	3,12 A	4,49 A	5,62 A	6,29 A	8,62 A
Short circuit current	Isc	1,21 A	1,82 A	3,03 A	3,27 A	4,85 A	6,07 A	6,60 A	9,04 A
Temperature Ratings									
Open circuit voltage coeficient	Tk Voc	-0,31 % / °C						-0,36 %/ °C	-0,32 %/ °C
Short circuit current coeficient	Tk Isc	0,05 % / °C						0,07 % / °C	0,04 % / °C
Power coeficient	Tk P	-0,41 % / °C						-0,38 % / °C	-0,42 % / °C
Operating Temperature		-40 a +85 °C							
Other specifications									
Dimensions	mm	345 x 430 x 25	605 x 345 x 25	650 x 505 x 25	625 x 590 x 25	770 X 670 X 30	945 x 670 x 30	1090 x 590 x 35	1200 x 770 x 35
Weight		2,2 kg	2,7 Kg	3,7 Kg	4,9 kg	5,7 Kg	7,0 Kg	6,90 Kg	10,10 Kg
Conection box		Juction box with diodes							
Cable		None	None	900 mm	900 mm	900 mm	900 mm	900 mm	900 mm
Connector		-	-	MC4	MC4	MC4	MC4	MC4	MC4
Warranty		Product: 2 years warranty under manufacturing defects							

* Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C

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