

# Monocrystalline Solar panels



- Top Grade Imported Material Made from Top-Grade
- Monocrystalline cells with up to 17.7% efficiency
- The laminating material that we use is Anti-Seawater-Corrosion, and especially suitable for building Marine Solar Panels; for use on seacraft – boats, yachts, etc.
- The Flexible Solar Panels provide a certain versatility that just cannot be achieved by Glass Solar Panels. Their lightweight and flexible characteristics provide seamless integration onto your vehicle.
- Seacraft: Boats, Yachts, Cruisers, and houseboats.
- Land Vehicles: Caravans, RVs, Motorhomes, Trailers, 4x4, etc.
- Aluminum ETFE Flexible Solar Panel
- PET Laminated ETFE Flexible Solar Panel
- Assembled from an Aluminum Back Sheet and PET laminated Solar Cells.



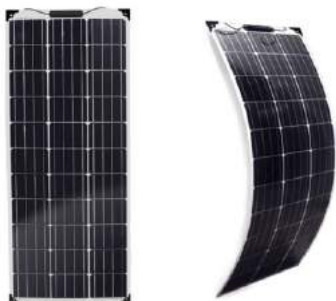
MC4connectors

Model	Description	Weight	Electrical data under STC (1)				
			Nominal Power	Max-Power Voltage	Max-Power Current	Open-Circuit Voltage	Short-Circuit Current
			PMPP	VMPP	IMPP	VOC	ISC
			Kg	W	V	A	V
SZ-20-32MFE	12V-MONO-FLEXIBLE-ETFE 355mm*490mm*3mm	1.1	20	16.2	1.23	19.1	1.47
SZ-30-36MFE	12V-MONO-FLEXIBLE-ETFE 355mm*545mm*3mm	1.5	30	18.2	1.65	21.5	1.98
SZ-40-36MFE	12V-MONO-FLEXIBLE-ETFE 665mm*430mm*3mm	1.7	40	18.2	2.2	21.5	2.51
SZ-50-36MFE	12V-MONO-FLEXIBLE-ETFE670mm*515mm*3mm	1.9	50	16.7	2.99	19.7	3.51
SZ-50-34MFLE	12V-MONO-FLEXIBLE-LONG-ETFE 350mm*980mm*3mm	1.9	50	17.2	2.91	20.3	3.43
SZ-60-40MFE	12V-MONO-FLEXIBLE-ETFE 675mm*605mm*3mm	2.0	60	20.2	2.97	23.9	3.48
SZ-80-36MFE	12V-MONO-FLEXIBLE-ETFE 515mm*1020mm*3mm	3.1	80	18.2	4.4	21.5	4.91

Model	SZ-20-32MFE	SZ-30-36MFE	SZ-40-36MFE	SZ-50-36MFE	SZ-50-34MFLE	SZ-60-40MFE	SZ-80-36MFE
Nominal Power (±3% tolerance)	20W	30W	40W	50W	50W	60W	80W
Cell type	Monocrystalline						
Number of cells in series	32	36	36	36	34	40	36
Maximum system voltage (V)	100V						
Temperature coefficient of PMPP (%)	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C
Temperature coefficient of Voc (%)	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C
Temperature coefficient of Isc (%)	+0.037/°C	+0.037/°C	+0.037/°C	+0.037/°C	+0.05/°C	+0.037/°C	+0.037/°C
Temperature Range	-40°C to +85°C						
Surface Maximum Load Capacity	120 kg/m <sup>2</sup>						
Allowable Hail Load	100 kg/m <sup>2</sup>						
Length of Cables / Connector Type	20 m/s, 6 g						
Output tolerance	+3%						
Product warranty	5 years						
Smallest packaging unit	1 panel individual						

1) STC (Standard Test Conditions): 1000 W/m<sup>2</sup>, 25°C, AM (Air Mass) 1.5

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Model	Description	Weight	Electrical data under STC (1)				
			Nominal Power	Max-Power Voltage	Max-Power Current	Open-Circuit Voltage	Short-Circuit Current
			PMPP	VMPP	IMPP	VOC	ISC
			Kg	W	V	A	V
SZ-100-33MFE	12V-MONO-FLEXIBLE-ETFE 515mm*1225mm*3mm	3.5	100	16.7	5.99	19.7	6.51
SZ-110-33MFE	12V-MONO-FLEXIBLE-ETFE 515mm*1225mm*3mm	3.5	110	16.7	6.59	19.7	7.09
SZ-120-40MFE	12V-MONO-FLEXIBLE-ETFE 670mm*1120mm*3mm	4.0	120	20.02	6.04	23.75	6.61
SZ-150-36MFE	12V-MONO-FLEXIBLE-ETFE 670mm*1510mm*3mm	6.2	150	18.2	8.24	21.5	8.77
SZ-160-36MFE	12V-MONO-FLEXIBLE-ETFE 670mm*1510mm*3mm	6.2	160	18.2	8.79	21.5	9.31
SZ-180-36MFE	12V-MONO-FLEXIBLE-ETFE 670mm*1510mm*3mm	6.2	180	18.2	9.89	21.5	10.41

Model	SZ-100-33MFE	SZ-110-33MFE	SZ-120-40MFE	SZ-150-36MFE	SZ-160-36MFE	SZ-180-36MFE
Nominal Power (±3% tolerance)	100W	110W	120W	150W	160W	180W
Cell type	Monocrystalline					
Number of cells in series	33	33	40	36	36	36
Maximum system voltage (V)	100V					
Temperature coefficient of PMPP (%)	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C	-0.48/°C
Temperature coefficient of Voc (%)	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C	-0.34/°C
Temperature coefficient of Isc (%)	+0.037/°C	+0.037/°C	+0.037/°C	+0.037/°C	+0.05/°C	+0.037/°C
Temperature Range	-40°C to +85°C					
Surface Maximum Load Capacity	120 kg/m <sup>2</sup>					
Allowable Hail Load	100 kg/m <sup>2</sup>					
Length of Cables / Connector Type	20 m/s, 6 g					
Output tolerance	+3%					
Product warranty	5 years					
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