

# Solar Panel Data Sheet # SP-EN100W

Description of Specification		Configuration	Units	Model
				EN-SP100W
General Data				
Maximum Power		Pm(W)	Watts	100W
Watt Tolerance			%	-1% - ±3%
Application				DC12V
Storage & Operating Temperature			Deg .C	-45~85° C
Standard Test Conditions: Cell Temperature:25 Deg. C,Irradiance:1kW/m²,Air Mass: 1.5				
Voltage & Ampereage				
Maximum System Voltage			Volts	1000VDC
Maximum Operating Voltage		Vmp	Volts	18.00
Maximum Operating Current		Imp	Amps	5.56
Open Circuit Voltage		Voc	Volts	22.00
Short Circuit Current		Isc	Amps	6.34
Solar Cell				
Cell Type and Diameter			Monocrystalline	155mm × 155mm
Number of Cells		In Series		72(6×12)
Temperatures Coefficients				
Temp Coefficient of Isc		Tk Isc	% per deg.C	0.037
Temp Coefficient of Voc		Tk Voc	% per deg.C	-0.34
Temp Coefficient of Pmax		Tk Pmax	% per deg.C	-0.48
Normal Op. Cell Temp (NOCT)			deg.C	45°C ±2°C
Materials & Accessories Data (All Certified by CE and TUV)				
Junction Box				IP65 rated
Output Cable:Wire Diameter :4mm <sup>mm²</sup>		Length	mm	900
Type of Cable Connector				MC4 Plug
Frame:Aluminum Alloy				Anodized
Front Glass: Tempered glass		Thickness		3.2mm Low Iron,High Transmission
Cell Encapsulation Material		EVA	mm	0.5mm
		TPT	mm	0.3mm
Quality Warranty (Output Power)				
	Power Production	90%	Years	5
		80%	Years	25
	Manufacturing		Years	5
Dimensions, Packing & Loading				
Dimensions: Length×Width×Height			mm	1195×541×35
Weight			kg	7.9