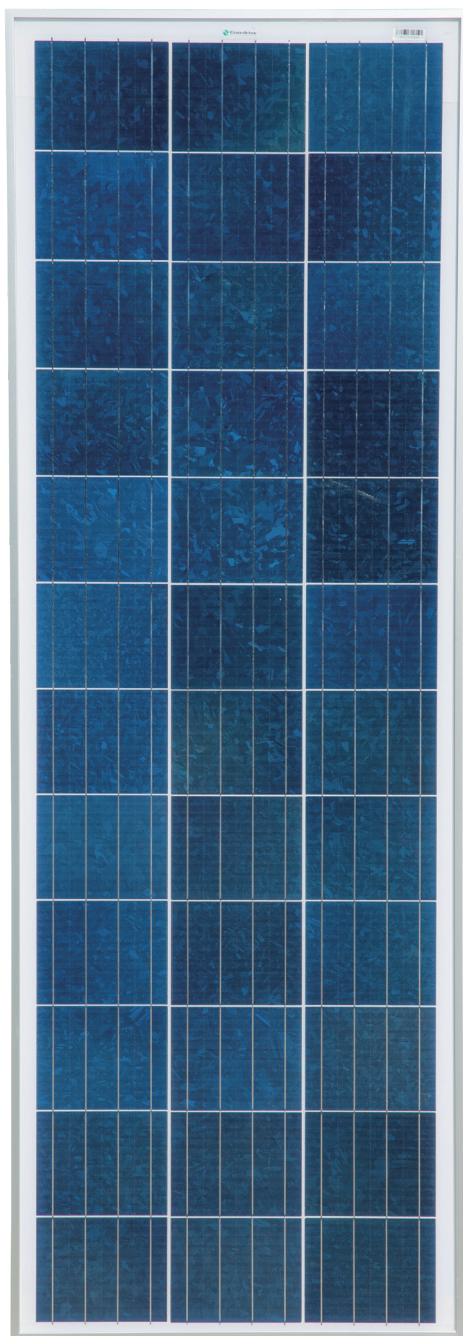


SP-EN120W / SP-EN120W-B F 35mm Poly Solar Panel



Key Features



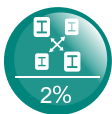
High Conversion Efficiency
Module efficiency up to 14.06% achieved through advanced cell technology and manufacturing capabilities



Positive Tolerance
Positive tolerance of up to -1%+~3% delivers higher output reliability



High PID Resistant
Advanced cell technology and qualified materials lead to high PID resistant



Current Sorting Process
System output maximised by reducing mismatch losses up to 2% with modules sorted and packaged by amperage



Extended Wind and Snow
Load tests
Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)



Withstanding Harsh Environment
Reliable quality leads to a better sustainability even in harsh environments in the outdoors

Quality Guarantee

- * High efficiency solar cells, Low resistance loss and higher conversion efficiency
- * Double EL test before and after lamination, highly controls product defects
- * Solar panel classified by current, to improve system performance

Certificates

- * ISO9001:2015
- * ISO14001:2015
- * ISO45001:2018
- * CE;CQC;SGS;IN METRO;DEKRA



SP-EN120W / SP-EN120W-B

F 35mm

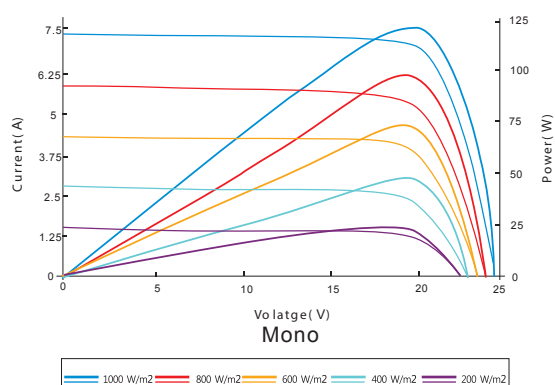
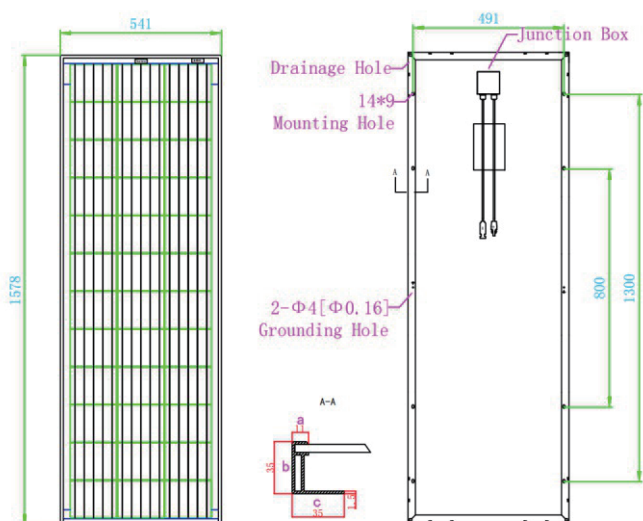
Poly Solar Panel

Electrical Characteristics

STC	SP-EN120W \ SP-EN120W-B
Maximum Power(Pmax)	120W
Optimum Operating Voltage(Vmp)	18.4V
Optimum Operating Current(Imp)	6.53A
Open Circuit Voltage(Voc)	22.8V
Short Circuit Current(Isc)	7.23A
Module Efficiency	14.06%
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC (IEC)
Power Tolerance	-1%~+3%
STC	Irradiance 1000 W/m ² , module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used

Engineering Drawing

I-V Curve



Excellent performance under weak light conditions: at an irradiance intensity of 800W/m² (AM 1.5, 25°C), 95.5% or higher of the STC efficiency(1000W/m²) is achieved.

Mechanical Characteristics

Solar Cell	Polycrystalline silicon 157mm×125mm
No. of Cells	36 (3×12)
Dimensions	1578x541x35mm
Weight	11.0kg
Front Glass	3.2mm(0.13 inches) tempered glass
Frame	Anodized aluminium alloy (available in silver or black)
Junction Box	Ip67 rated
Output Cables	TÜV (2Pfg1169:2007)
	4.0 mm ² (0.006 inches ²), symmetrical lengths(-) 900mm and (+) 900 mm
Connectors	MC4 connectors

Temperature Characteristics

NOCT	45±2°C
Temperature Coefficient of Pmax	-0.40%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.058%/°C