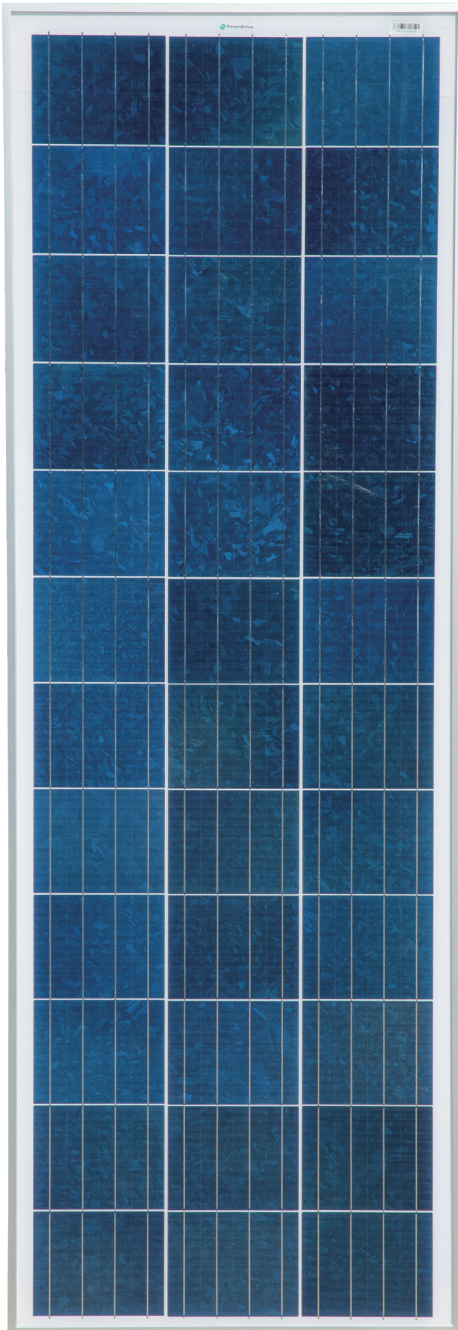


**SP-EN120W / SP-EN120W-B  
F 35mm  
Mono Solar Panel**



## Key Features



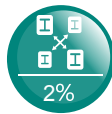
**High Conversion Efficiency**  
Module efficiency up to 14.06% achieved through advanced cell technology and manufacturing capabilities



**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



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## Certificates

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

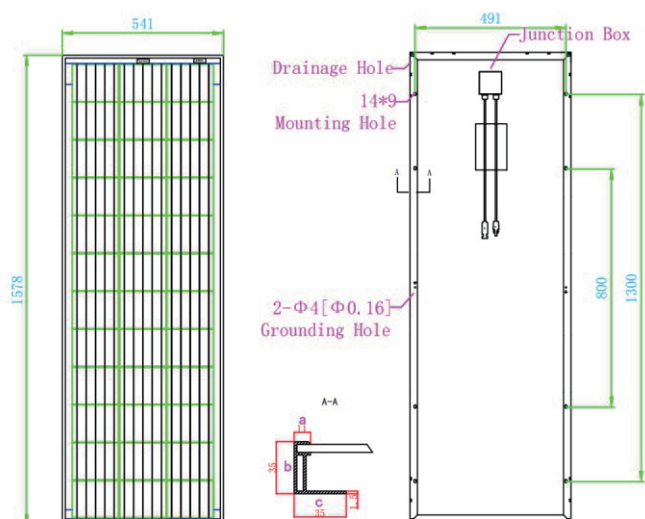
# SP-EN120W / SP-EN120W-B F 35mm Mono Solar Panel

## Electrical Characteristics

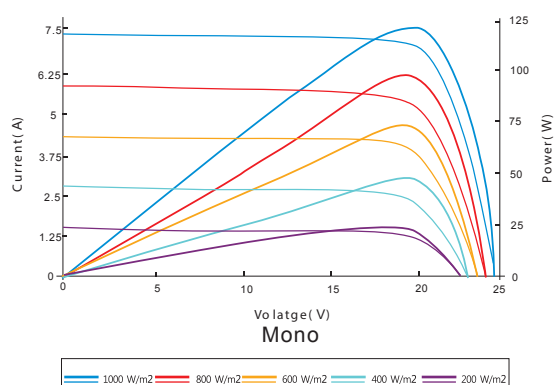
STC	SP-EN120W \ SP-EN120W-B
Maximum Power(Pmax)	120W
Optimum Operating Voltage(Vmp)	18.4V
Optimum Operating Current(Imp)	6.53A
Open Circuit Voltage(Voc)	22.8V
Short Circuit Current(Isc)	7.23A
Module Efficiency	14.06%
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC (IEC)
Power Tolerance	-1%~+3%

STC Irradiance 1000 W/m<sup>2</sup>, 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/m<sup>2</sup> (AM 1.5, 25°C), 95.5% or higher of the STC efficiency(1000W/m<sup>2</sup>) 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 <sup>2</sup> (0.006 inches <sup>2</sup> ), 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



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