

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%+ \sim 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





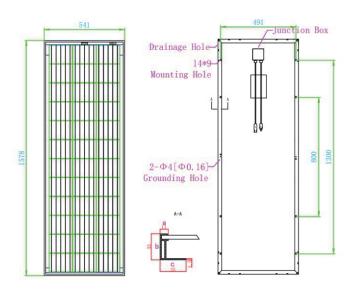


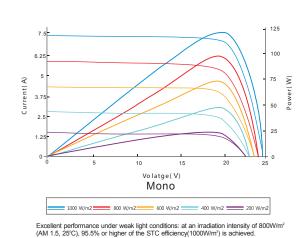




STC	SP-EN120W\SP-EN120W-B	
Maximum Power(Pmax)	120W	
Optimum Operating Voltage(Vm	p) 18.4V	
Optimum Operating Current(Imp) 6.53A	
Open Circuit Voltage(Voc)	22.8V	
Short Circuit Current(Isc)	7.23A	
Module Efficiency	14.06%	
Operating Module Temperature	-40°C to +85°C	
Maximum System Voltage	1000V DC (IEC)	
Power Tolerance	-1%~+3%	
STC Irradia	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used	

Engineering Drawing I-V Curve





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	lp67 rated		
Output Cables	TÜV (2Pfg1169:2007)		

Connectors

4.0 mm² (0.006 inches²), symmetrical lengths(-) 900mm and (+) 900 mm

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		

