

SP-EN20W **F 30mm** Mono Solar Panel

# **Key Features**



#### High Conversion Efficiency

Module efficiency up to 10.56% 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



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







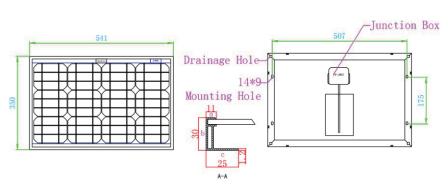


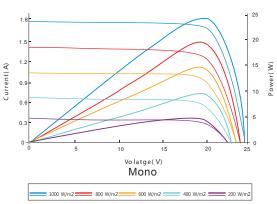
### SP-EN20W F 30mm Mono Solar Panel



STC	SP-EN20W	
Maximum Power(Pmax)	20W	
Optimum Operating Voltage(	/mp) 17.6V	
Optimum Operating Current(I	mp) 1.14A	
Open Circuit Voltage(Voc)	22.0V	
Short Circuit Current(Isc)	1.50A	
Module Efficiency	10.56%	
Operating Module Temperatu	e -40°C to +85°C	
Maximum System Voltage	715/1000V DC (IEC)	
Power Tolerance	-1%~+3%	
STC Irra	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





Excellent performance under weak light conditions: at an irradiation intensity of  $800W/m^2$  (AM 1.5,  $25^{\circ}$ C),  $95.5^{\circ}$  or higher of the STC efficiency( $1000W/m^2$ ) is achieved.

Mechanical Charact	eristics	
Solar Cell	Monocrystalline silicon 125mm×27.5mm	
No. of Cells	36 (4×9)	
Dimensions	350x541x30mm	
Weight	2.7kg	
Front Glass	3.2mm(0.13 inches) tempered glass	
Frame	Anodized aluminium alloy	
Junction Box	lp67 rated	
Output Cables	TÜV (2Pfg1169:2007)	
	0.75mm <sup>2</sup> , symmetrical lengths(-) 1500mm and (+) 1500mm	

Temperature Characteristics			
NOCT	45±2°C		
Temperature Coefficient of Pmax	-0.48%/°C		
Temperature Coefficient of Voc	-0.34%/°C		
Temperature Coefficient of Isc	0.037%/°C		

