

ESSPC6 X 12P-5BB 330 Watt



Key Features



5 Busbar Solar Cell

Stronger current collection ability, Special circuit design with much lower hot spot temperature;



PID Resistant

Excellent PID resistance at 96 hours (85°C/85%) test,and also can be improved to meet higher standards for the particularly harsh environment;



Anti-Crack

Excellent anti-microcracking performance with more balanced interior stress:



Module efficiency up to 17.2%

Half cell structure brings low resistance characteristic, higher lifetime generating capacity, simultaneously lower annual power attenuation;



Low-Light Performance

Excellent power generation performance under Low-Light condition due to multi busbar; better shading response benefit from half cell module;

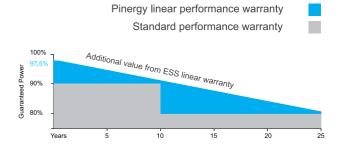


Strength and Durability

Certified for 5400Pa snow and 2400Pa Wind loads test;

Linear Performance Warranty

10 Years Product Warranty · 25 Years Linear Power Warranty



Certifications

- IEC 61215, IEC 61730, IEC61646, IEC62108, CE
- ISO9001: 2015: Quality management system
- ISO14001: 2015: Environmental management system
- ISO45001: 2018: Occupational health and safety management system







ESS

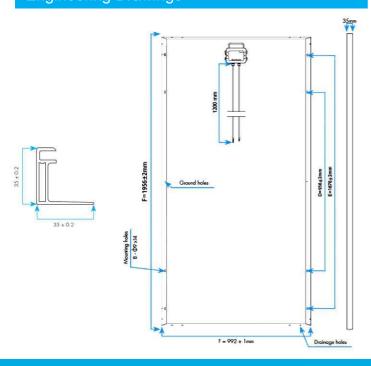
Electrical Specifications		Module Type: ESSPC6x10P-5BB-270W
Module Type		330W
Testing Condition		STC
Max. Power (Pmax/W)		330W
Voltage at Max, Power (Vmp/V)		37.87V
Current at Max. Power (Imp/A)		8.72A
Open circuit voltage (Voc/V)		45.6V
Short circuit current (Isc/A)		9.06 A
Module efficiency (%)		17.3%
Power Tolerance (W)	(STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5	3~5

Standard Test Condition

Mechanical Specifications		
Cell Type	5BB-Poly-(157×157)mm	
No. of Cells	72 (6×12)	
Dimension	1956x992x35mm	
Weight	22kg	
Glass	3.2mm, Low Iron Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	lp67&68, 3 diodes	
Output Cables	4mm², Length 1200mm or customized	
Connector type	MC4 compatible	

Packaging Configu	rations
Per Pallet	25 pcs

Engineering Drawings



Temperature Characteristics

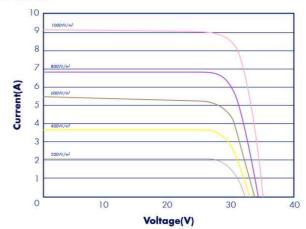
NOCT Temperature	45°C ±2°C
	43 C 12 C
Temperature Coefficient (Pmax)	-0.42%/°C
Temperature Coefficient (Voc)	-0.33%/℃
Temperature Coefficient (Isc)	0.05%/°C

Maximum Ratings

Maximum system voltage (IEC)	1000V DC
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40°C ~ +85°C
Maximum series fuse rating	15A

Curve & Temperature Dependence

I-V CURVES



I - V Curves of Etemad Sun Solar Module ESSPC 6x12p - 5BB - 320 W at Different Light Power