Poly

CSUNPOWER®
Power the clean world

CSP290-60P

Poly Module

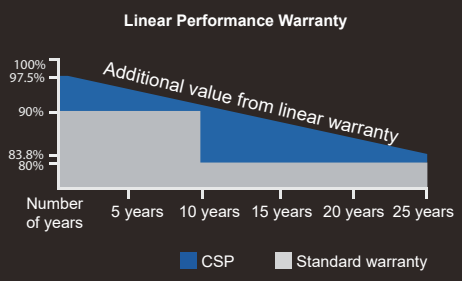
CSP290-60P CSP285-60P
CSP280-60P CSP275-60P

17.70%
Maximum Module Efficiency

290 Wp
Rated Maximum Power

12 Years
Material & Workmanship Warranty

25 Years
Linear Power Output Warranty



5 Busbar Solar Cell
5 busbar solar cell adopts new technology to improve the efficiency of modules , offers a better aesthetic appearance.

PID Free
Excellent Anti-PID performance from improved cell technology and selected packaging material.

Low-light Performance
Excellent performance under weak light condition.

Load Capacity Enhancement
Certificated to withstand wind (2400 Pa) and snow load (5400 Pa).

Harsh Environment Adaptability
Reliable quality enables module to have better sustainability even in desert, farms or near the coast.

- Csunpower(CSP) is a world leading solar module manufacturer and comprehensive solar solution provider. We are specialized in high efficient solar module research, manufacturing and distribution to global market with advanced module production capacity available both in China and abroad. Founded in 2004, Headquartered in Nanjing, China. Till the end of 2019, we accumulatively shipped 10GW solar modules to more than 50 countries, developed and built 500MW solar projects in Asia Pacific region.

Note:

Parameters in this datasheet do not refer to parameters of a single solar module, also not the commitment content in the contract. This datasheet is used only for comparison of different module types. CSUNPOWER does not guarantee that it is completely accurate. CSUNPOWER is entitled to adjust the parameters without prior notice.

Electrical Characteristics at Standard Test Conditions (STC)

Module Type	CSP290-60P	CSP285-60P	CSP280-60P	CSP275-60P
Maximum Power - Pmax (W)	290	285	280	275
Positve Power Tolerance	0～+5W	0～+5W	0～+5W	0～+5W
Open Circuit Voltage - Voc (V)	38.95	38.69	38.43	38.18
Short Circuit Current - Isc (A)	9.62	9.53	9.44	9.36
Maximum Power Voltage - Vmpp (V)	31.7	31.43	31.19	30.94
Maximum Power Current - Impp (A)	9.15	9.07	8.98	8.89
Module Efficiency	17.7%	17.4%	17.1%	16.8%

Standard test conditions (STC): irradiance 1000W/m²; AM 1.5G; cell temperature 25℃.

Electrical Characteristics at Nominal Operating Cell Temperature (NOCT)

Module Type	CSP290-60P	CSP285-60P	CSP280-60P	CSP275-60P
Maximum Power - Pmax (W)	216	212	208	204
Open Circuit Voltage - Voc (V)	37.26	37.05	36.85	36.56
Short Circuit Current - Isc (A)	7.64	7.56	7.48	7.40
Maximum Power Voltage - Vmpp (V)	30.09	29.88	29.69	29.48
Maximum Power Current - Impp (A)	7.18	7.10	7.01	6.92

Nominal operating cell temperature (NOCT) : irradiance 800W/m²; wind speed 1 m/s; ambient temperature 20℃.

Temperature Characteristics

Voltage Temperature Coefficient	−0.330%/℃
Current Temperature Coefficient	+0.058%/℃
Power Temperature Coefficient	−0.400%/℃
NOCT	45±2℃

Maximum Ratings

Maximum System Voltage (V)	1000/1500
Series Fuse Rating (A)	20

Mechanical Characteristics

Dimensions（L*W*H）	1650*992*35mm
Weight	18.3kg
Cells	60(6*10) pieces poly solar cells series strings
Junction Box	IP67
Cable	4mm², 900mm
Connector	MC4/Compatible with MC4
Frame	Anodized aluminum profile

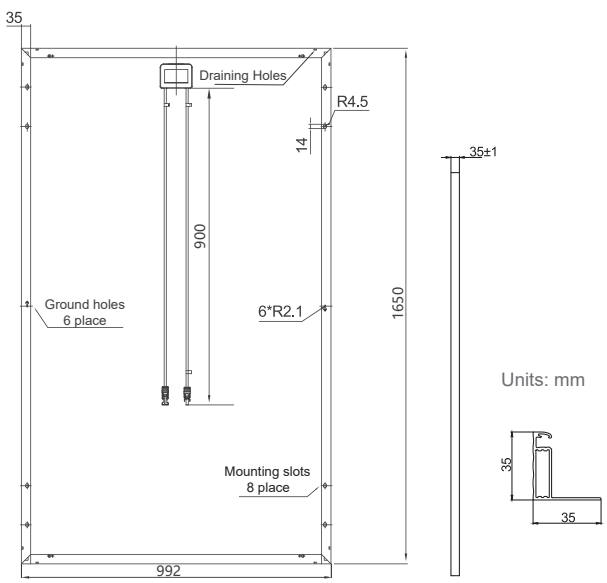
Packaging

Pallet	30 pcs
Container 20’	360 pcs
Container 40’	896 pcs

System Design

Temp. Range	-40℃~+85℃
Application Class	A

Dimensions



IV-Curves