

SUN 60P

265W/270W/275W/
280W

POLY CRYSTALLINE MODULE

IEC61215 / IEC61730 / IEC61701 /
IEC62716 / IEC62804

Ministry of Industry and Information entrusted the CTC tested the solar module samples randomly detected in Hainan base. The first-year standard is $\leq 2.5\%$, the actual attenuation rate of Sunergy is 1.88%. The second-year standard is $\leq 0.7\%$, the actual attenuation rate of Sunergy is 0.38%.



IP68 Junction Box, Connector

IP68 Junction Box and Connector have a high degree of waterproof, effectively resist the harsh environment



15A current

The junction box carries a current of 15A, ensuring high current flow through the modules



Super strong frame

Glue-spilled tank has a double-layer waterproof, cross-section with hook-shaped aluminum frame, enhanced by 10% of the mechanical load strength



Current division

The module refines the current division, thus effectively reducing the loss of up to 2% due to mismatch and increasing the power output of the system



Salt spray, Ammonia and PID test

Excellent salt spray resistance, anti-ammonia and anti PID, TUV, SUD certification approved



Strong Mechanical load capacity

Passed the 2400pa wind load and 5400pa snow load test, ensuring that the module has a stable mechanical life



Color Classification

Modules are packaged according to color classification, to achieve consistent appearance after installation

QUALIFICATIONS AND CERTIFICATES

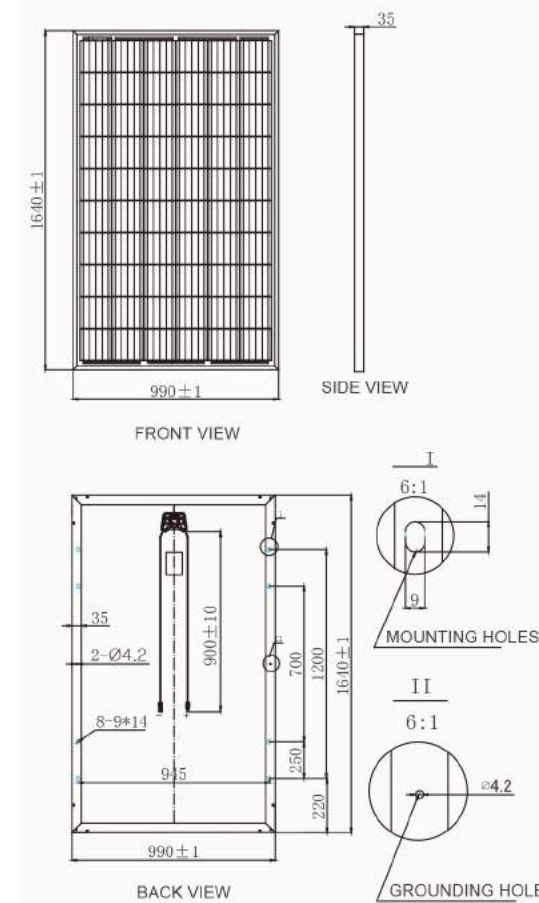


LINEAR PERFORMANCE WARRANTY

- 10 Years Manufacturing Warranty
- 12 Years 90% Power Output
- 25 Years 80% Power Output

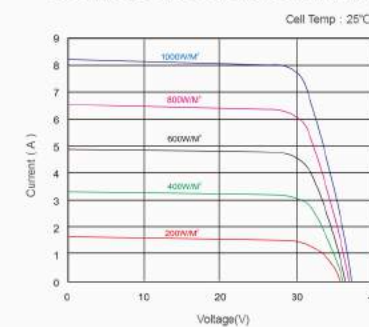


MECHANICAL DRAWINGS

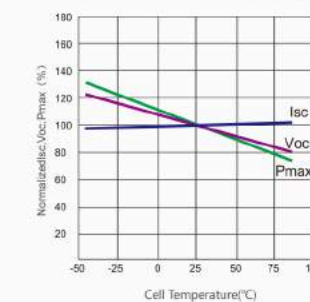


I-V CURVES

I-V Curves at SUN275-60P at different irradiances



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	Poly Crystalline 156.75x156.75mm			
Number Of Cells	60 (6x10)			
Dimensions(AxBxC)	1640x990x35mm			
Weights	19kg			
Front Glass	3.2mm Tempered Low Iron Glass			
Frame	Anodized Aluminum			
Junction Box	IP68, with Bypass Diodes			
Connector	Mc4 Compatible			
Output Cables	Tuv, length 900mm, 4.0mm²			

ELECTRICAL CHARACTERISTICS

Maximum Power At STC(Pmax)	265W	270W	275W	280W
Short Circuit Current(Isc)	8.94A	9.06A	9.18A	9.29A
Open Circuit Voltage(Voc)	37.0V	37.2V	38.0V	38.5V
Maximum Power Current(Imp)	8.54A	8.65A	8.76A	8.86A
Maximum Power Voltage(Vmpp)	31.0V	31.2V	31.4V	31.6V
Module Efficiency	16.32%	16.63%	16.94%	17.25%
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5.

NOCT

Maximum Power At STC(Pmax)	196.3	200.0	203.7	207.4
Short Circuit Current(Isc)	7.24	7.33	7.43	7.52
Open Circuit Voltage(Voc)	34.2	34.4	35.1	35.6
Maximum Power Current(Imp)	6.80	6.89	6.99	7.07
Maximum Power Voltage(Vmpp)	28.9	29.0	29.2	29.3

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, wind speed 1m/s.

SYSTEM INTEGRATION PARAMETERS

Maximum System Voltage	VDC 1000V
Maximum Series Fuse	15A
Increased Snowload Acc.to IEC 61215	5400Pa
Operating Temperature	-40~+85°C
Number Of Bypass Diodes	3

TEMPERATURE CHARACTERISTICS

Normal Operating Cell Temperature(Noct)	45°C±2°C
Temperature Coefficient Of Pmax	-0.41%/°C
Temperature Coefficient Of Voc	-0.33%/°C
Temperature Coefficient Of Isc	0.06%/°C

PACKING CONFIGURATION

Container	20' GP	40' GP
Pieces Per Pallet	30	30
Pallets Per Container	14	28
Pieces Per Container	400	840