

## SUNERGY USA WORKS LLC

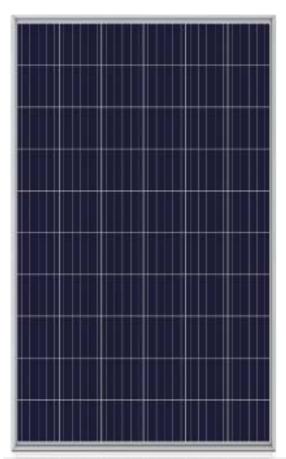
### www.sunergyworks.com

# SUN60P-30F 270W/275W/280W/ 285W

POLY CRYSTALLINE MODULE

IEC61215 / IEC61730 / IEC61701 / IEC62716 /IEC62804





### LINEAR PERFORMANCE WARRANTY

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





### 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;

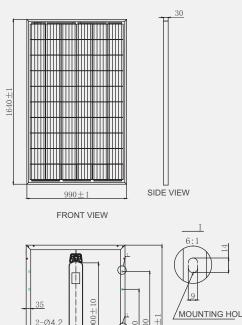


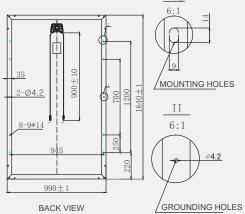
### **Color classification**

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

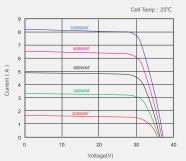
### QUALIFICATIONS AND CERTIFICATES



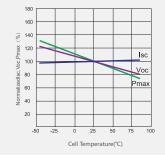




I-V Gurves at SUN275-60P at different Irradiances



Power voltage current curve at different temperature



Cell Type	Poly Crystalline 156.75x156.75mm
Number Of Cells	60 ( 6x10 )
Dimensions(AxBxC)	1640x990x30mm
Weights	18.5kg
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,4.0mm <sup>2</sup>

Maximum Power At STC(Pmax)	270W	275W	280W	285W
Short Circuit Current(Isc)	9.06A	9.18A	9.29A	9.38A
Open Circuit Voltage(Voc)	37.2V	38.0V	38.5V	38.7V
Maximum Power Current(Impp)	8.65A	8.76A	8.86A	8.96A
Maximum Power Voltage(Vmpp)	31.2V	31.4V	31.6V	31.8V
Module Efficiency	16.63%	16.94%	17.25%	17.55%
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)	200.0	203.7	207.4	211.1
Short Circuit Current(Isc)	7.33	7.43	7.52	7.59
Open Circuit Voltage(Voc)	34.4	35.1	35.6	35.8
Maximum Power Current(Impp)	6.89	6.99	7.07	7.14
Maximum Power Voltage(Vmpp)	29.0	29.2	29.3	29.6

NOCT: Irradiance at 800W/m² , Ambient Temperature  $20^\circ\text{C}~$  , wind speed 1m/s .

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

Norminal 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 Lsc	0.06%°C

### Container 20' GP 40' GP/40' HQ Pieces Per Pallet 35 35/35 Pallets Per Container 14 28/28 Pieces Per Container 468 980/1050