

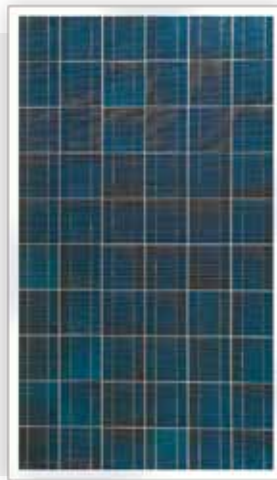
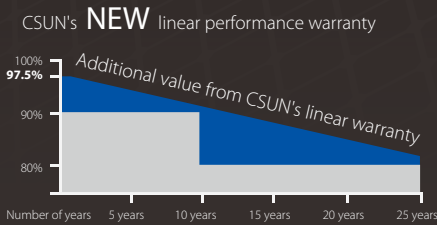
# Poly Mono



## Powerguard insurance global coverage

Within the first year, the output power shall not be less than 97.5% of the minimum output power in CSUN's product datasheet, thereafter the loss of output power shall not exceed 0.7% per year, ending with 80.7% in the 25th year.

■ CSUN    ■ Standard warranty



# CSUN250-60P

Standard Solar Product

15.40%  
Module efficiency



Industry leading conversion efficiency

250W  
Highest power output



Positive tolerance offer

10year  
Material & Workmanship warranty



Passed salt mist corrosion testing and ammonia corrosion testing

25year  
Linear power output warranty



Certificated to withstand Wind (2400Pa) and Snow load (7200Pa)



Excellent performance under weak light condition



Good Temperature Coefficient performance enables better output in the tropical zone

- China Sunergy (Nanjing) Co., Ltd. (NASDAQ: CSUN), established in 2004, is a hi-tech corporation with its core business in R&D, manufacturing, and sale of high efficiency silicon based solar cells and modules.
- As one of the leading PV enterprises in the world, CSUN has delivered more than 1GW solar products, to residential, commercial, utility and off-grid projects all around the world.
- Through strict selection of raw materials, stringent quality control and rigorous test in state of the art facilities in Nanjing and Shanghai, CSUN has always committed to higher efficiency, more stable and better cost performance products.

\* Note: All specifications, warranties, certifications about module of "CSUN" series also apply to that of "SST".



All information and data are subject to change without notice.



## Electrical characteristics at Standard Test Conditions(STC)

Module type	CSUN 250-60P	CSUN 245-60P	CSUN 240-60P	CSUN 235-60P	CSUN 230-60P
Pmpp [W]	250	245	240	235	230
Positive power tolerance	0~3%				
Voc [V]	37.3	37.1	36.9	36.8	36.7
Isc [A]	8.81	8.74	8.67	8.59	8.52
Vmpp [V]	29.9	29.7	29.6	29.5	29.4
Impp [A]	8.36	8.25	8.11	7.97	7.83
Practical module efficiency	17.12%	16.78%	16.44%	16.10%	15.75%
Module efficiency	15.40%	15.09%	14.78%	14.47%	14.17%

Electrical data relates to standard test conditions (STC) : irradiance 1000W/ m<sup>2</sup> ; AM 1.5 ; cell temperature 25 °C . measuring uncertainty of power is within ±3%. Certified in accordance with IEC61215, IEC61730-1/2 and UL 1703

## Electrical Characteristics at Normal Operating Cell Temperature(NOCT)

Module type	CSUN 250-60P	CSUN 245-60P	CSUN 240-60P	CSUN 235-60P	CSUN 230-60P
Maximum Power-Pmax	185	181	178	175	172
Maximum Power Voltage-Vmp(V)	27.9	27.5	27.2	27	26.7
Maximum Power Current-Impp(A)	6.64	6.58	6.54	6.48	6.44
Open Circuit Voltage(V)-Voc(V)	34.5	34.2	34	33.8	33.6
Short Circuit Current(A)-Isc(A)	7.1	7.02	6.95	6.9	6.85

Electrical data relates to standard test conditions (NOCT) : irradiance 800W/ m<sup>2</sup> ; wind speed 1 m/s ; cell temperature 45 °C ; ambient temperature 20 °C . measuring uncertainty of power is within ±3%

## Temperature Characteristics

Voltage Temperature Coefficient	-0.292%/K
Current Temperature Coefficient	+0.045%/K
Power Temperature Coefficient	-0.408%/K

## Maximum Ratings

Maximum system voltage(V)	1000
Series fuse rating(A)	20

## Mechanical Characteristics

Dimensions	1640x990x40mm(LxWxH)
Weight	19.1kg
Frame	Anodized aluminum profile
Front glass	White toughened safety glass, 3.2mm
Cell Encapsulation	EVA(Ethylene-Vinyl-Acetate)
Back Sheet	composite film
Cells	6x10 pieces monocrystalline solar cells series strings (156mmx156mm)
Junction Box	with 6bypass diodes
Cable	length 900mm,1x4m m <sup>2</sup>

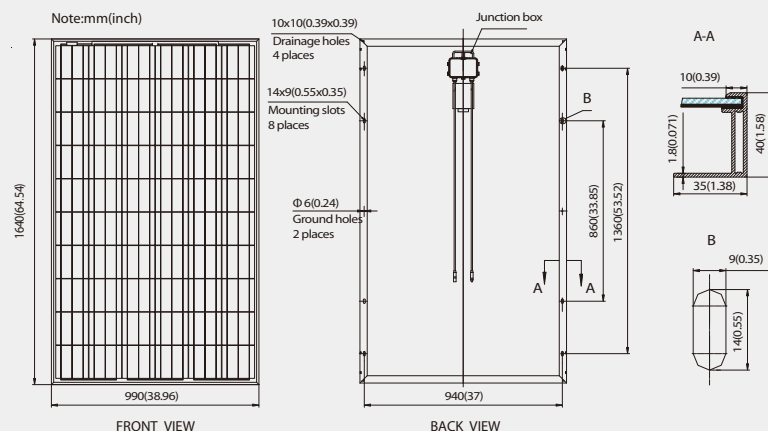
## Packaging

Dimensions(LxWxH)	1640x990x40mm
Container 20'	300
Container 20'HC	324
Container 40'	700
Container 40'HC	756

## System Design

Temperature range	-40°Cto+85°C
Hail	maximum diameter of 25mm with impact speed of 23m/s(51.2mph)
Maximum surface load capacity	7200pa

## Dimensions



## IV-Curves

