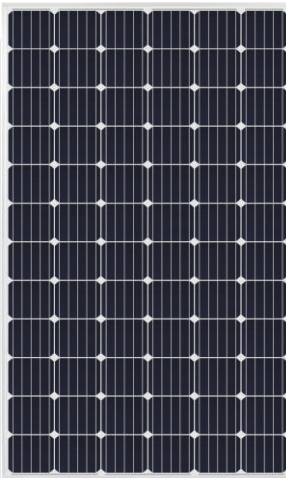
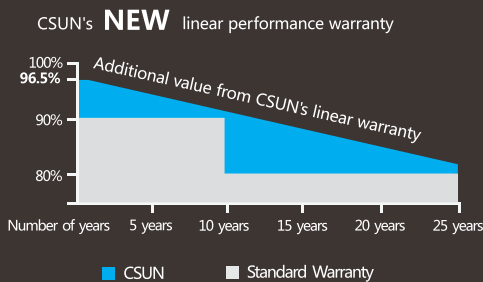


# Mono



## Powerguard insurance global coverage

Within the first year, the output power shall not be less than 96.5% of the minimum output power in CSUN's product datasheet, thereafter the loss of output power shall not exceed 0.68% per year, ending with 80.18% in the 25th year.



## CSUN325-72M-QSAR

Highest efficiency offer: QSAR™



CSUN315-72M CSUN320-72M CSUN325-72M

### 16.78%

Module efficiency

### 325W

Highest power output

### 10years

Material & Workmanship warranty

### 25years

Linear power output warranty



PID-free



World class mono efficiency



Unique 5-busbar design improves the reliability performance of module



Tighter product performance distribution and current sorting reduces the mismatch power loss in system operation



positive tolerance offer



Good temperature coefficient enables higher output in high temperature regions



Excellent performance under low light conditions



Certified for salt/ammonia corrosion resistance



Load certificates: wind to 2400Pa and snow to 5400Pa

- 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 2.4GW 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 effective products.

QSAR™ is the trade mark owned by CSUN, also the brand name of high efficiency solar module produced by CSUN.

All information and data are subject to change without notice.



## Electrical Characteristics at Standard Test Conditions (STC)

Module Type	CSUN325-72M-QSAR	CSUN320-72M-QSAR	CSUN315-72M-QSAR
Maximum Power-Pmax (W)	325	320	315
Open Circuit Voltage - Voc (V)	46.0	45.9	45.8
Short Circuit Current - Isc (A)	9.12	9.01	8.92
Maximum Power Voltage - Vmpp (V)	37.7	37.4	37.2
Maximum Power Current - Impp (A)	8.62	8.56	8.47
Module Efficiency	16.78%	16.53%	16.27%

Standard Test Conditions [STC]: irradiance 1,000 W/m<sup>2</sup>; AM 1.5G; module temperature 25°C. Measuring uncertainty of power is within ±3%.

Tolerance of Pmp:0~+3%. Certified in accordance with IEC61215, IEC61730-1/2 and UL1703.

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

Module Type	CSUN325-72M-QSAR	CSUN320-72M-QSAR	CSUN315-72M-QSAR
Maximum Power-Pmax (W)	242.5	238.9	232.2
Open Circuit Voltage - Voc (V)	42.9	42.8	42.5
Short Circuit Current - Isc (A)	7.35	7.26	7.19
Maximum Power Voltage - Vmpp (V)	35.0	34.9	34.7
Maximum Power Current - Impp (A)	6.92	6.83	6.69

Nominal Operating Module Temperature(NOCT): irradiance 800W/m<sup>2</sup>; wind speed 1m/s; ambient temperature 20°C.

Measuring uncertainty of power is within ±3%, Certified in accordance with IEC61215, IEC61730-1/2 and UL1703.

## Temperature Characteristics

Voltage Temperature Coefficient	-0.307%/°C
Current Temperature Coefficient	+0.039%/°C
Power Temperature Coefficient	-0.423%/°C
NOCT	45±2°C

## Maximum Ratings

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

## Mechanical Characteristics

Dimensions	1956×990×50mm (L×W×H)
Weight	22.3kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2mm
Cell Encapsulation	EVA(Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6×12 pieces mono crystalline solar cells series strings (156mm×156mm)
Junction Box	Rated current ≥13A, IP ≥67
Cable & Connector	Length 900mm, 1×4mm <sup>2</sup> , compatible with MC4

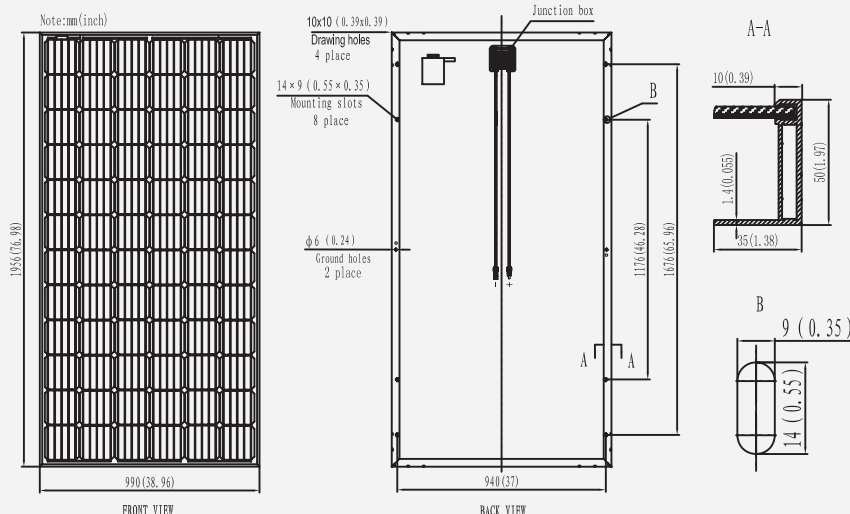
## Packaging

Dimensions (L×W×H)	2015×1140×1137mm
Container 20'	200
Container 40'	480
Container 40' HC	516

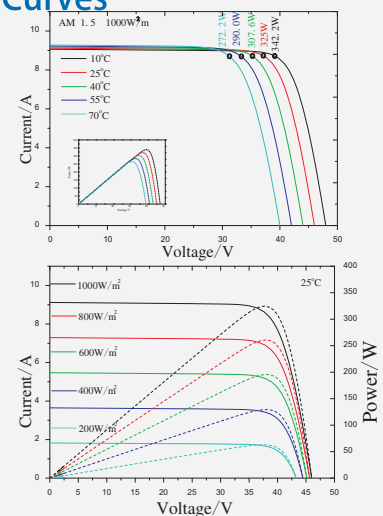
## System Design

Temperature range	-40°C to +85°C
Hail	maximum diameter of 25mm with impact speed of 23m/s
Maximum surface load	5400Pa
Application class	class A
Safety class	class II

## Dimensions



## IV-Curves



Excellent performance under weak light condition.