Mono

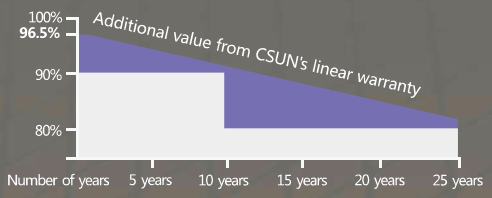
PowerGuard
SPECIALTY INSURANCE SERVICES

Powerguard Insurance Global Coverage

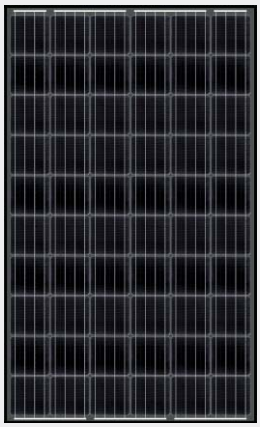
The power output shall not be less than 96.5%of the minimum power output stated in the product data sheet in the first year of the product's life cycle. The loss of power output shall not exceed 0.7% per year thereafter, ending with 80.7% in the 25th year.

CSUN Standard Warranty

CSUN's **NEW** linear performance warranty



CSUN®
energy for today



CSUN300-60M-BB

High efficiency PERC technology for esthetic applications

CSUN300-60M-BB CSUN295-60M-BB
CSUN290-60M-BB

18.48%
Module efficiency

300W
Highest power output

10 years
Material & Workmanship warranty

25 years
Linear power output warranty

- PID-free
- World class mono efficiency
- 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 Co., Ltd. designs, manufactures and delivers high efficiency solar cells and modules to the world from its production centers based in China, Turkey, South Korea and Vietnam.
- Founded in 2004, China Sunergy is well known for its advanced solar cell technology, reliable product quality, and excellent customer service.
- As one of leading PV enterprises, China Sunergy has delivered more than 4.0GW of solar products to residential, commercial, utility and off-grid projects all around the word.

- 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.

www.csun-solar.com

Electrical Characteristics at Standard Test Conditions (STC)

Module Type	CSUN300-60M-BB	CSUN295-60M-BB	CSUN290-60M-BB
Maximum Power-Pmax (W)	300	295	290
Open Circuit Voltage - Voc (V)	39.8	39.6	39.5
Short Circuit Current - Isc (A)	9.60	9.54	9.47
Maximum Power Voltage - Vmpp (V)	32.2	32.0	31.9
Maximum Power Current - Impp (A)	9.31	9.22	9.10
Module Efficiency	18.48%	18.16%	17.86%

Standard Test Conditions [STC]: irradiance 1,000 W/m^2; AM 1,5G; module temperature 25°C. Measuring uncertainty of power is within ±3%.
Tolerance of Pmpp:0~+3%. Certified in accordance with IEC61215, IEC61730-1/2 and UL1703.

Electrical Characteristics at Nominal Operating Cell Temperature (NOCT)

Module Type	CSUN300-60M-BB	CSUN295-60M-BB	CSUN290-60M-BB
Maximum Power-Pmax (W)	227	222	214
Open Circuit Voltage - Voc (V)	37.3	37.1	36.1
Short Circuit Current - Isc (A)	7.74	7.69	7.60
Maximum Power Voltage - Vmpp (V)	31.0	30.6	30.0
Maximum Power Current - Impp (A)	7.32	7.25	7.13

Nominal Operating Module Temperature(NOCT): irradiance 800W/m^2; 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	1640x990x35mm (LxWxH)
Weight	18. 3kg
Frame	Anodiz ed aluminum profile
Front Glass	White toughened safety glass, 3.2mm
Cell Encapsulation	EVA(Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6×10 pieces monocrystalline solar cells series strings (156mm×156mm)
Junction Box	Rated current ⩾13A, IP⩾ 67, TUV&UL
Cable & Connector	Length 900mm,1x4mm^2, compatible with MC4

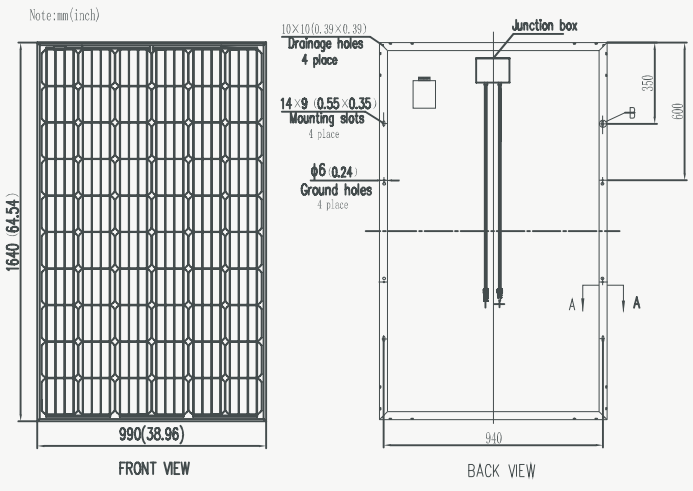
Packaging

Dimensions (L×W×H)	1700×1140×1137mm
Container 20'	360
Container 40'	840
Container 40' HC	896

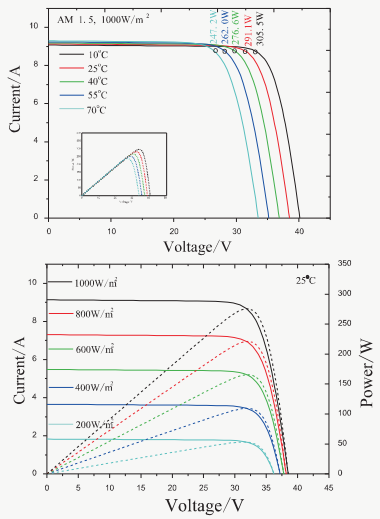
System Design

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

Dimensions



IV-Curves



Excellent performance under weak light condition.