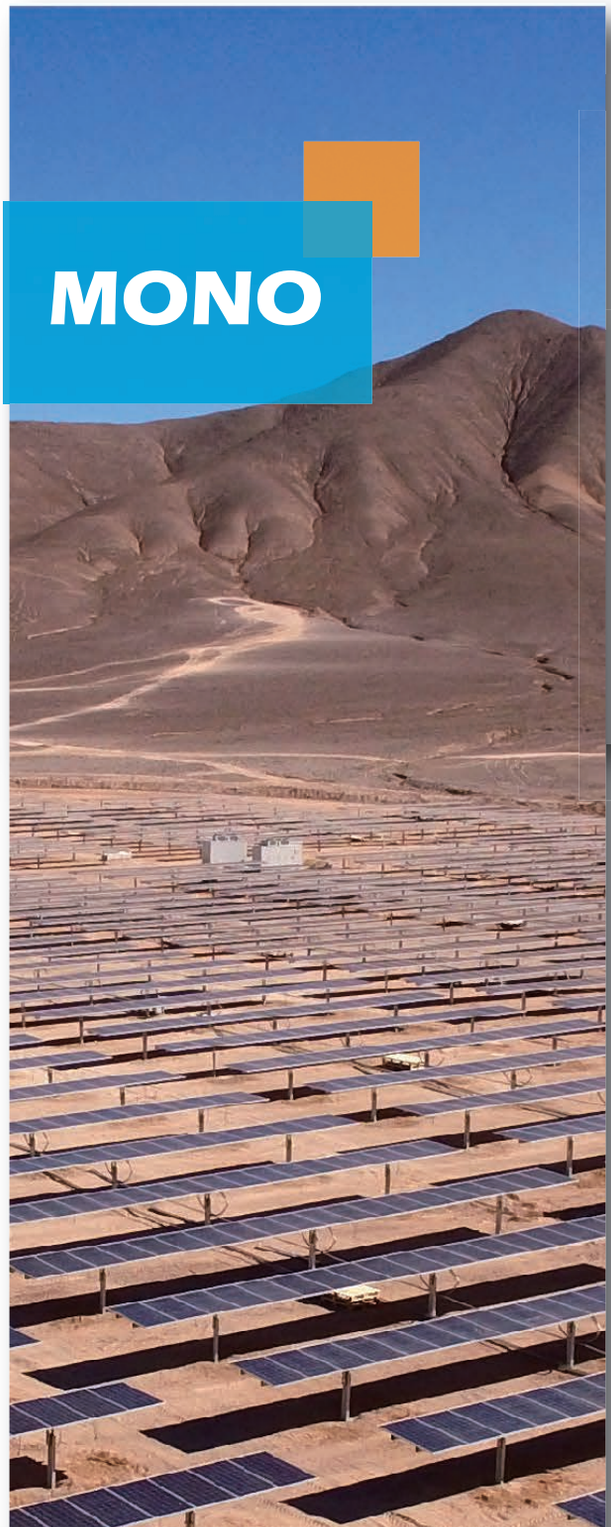
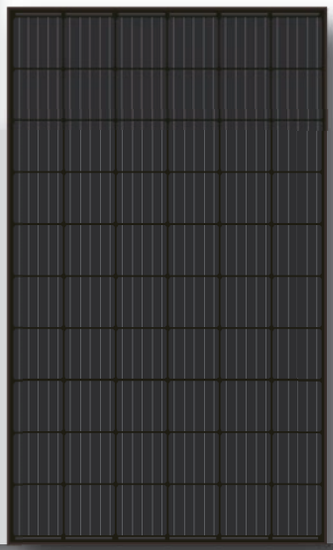


CSUN
energy for today



CSUN315-60M-BB

High efficiency PERC technology for esthetic applications

CSUN315-60M-BB
CSUN310-60M-BB
CSUN305-60M-BB
CSUN300-60M-BB
CSUN295-60M-BB

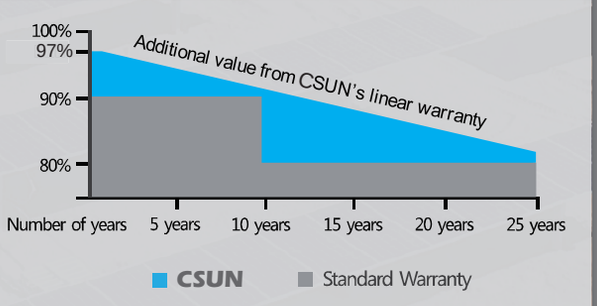
19.40%
Module efficiency

315W
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



Sunergy Califronia LLC is a CSUN-brand-licensed manufacturer in USA.

As one of the leading PV enterprises, CSUN has delivered more than 8GW of solar products to residential, commericial, utility and off-grid projects all around the world.

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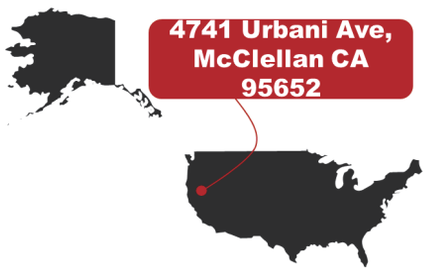


Electrical Characteristics at Standard Test Conditions(STC)

Module Type	CSUN315-60M-BB	CSUN310-60M-BB	CSUN305-60M-BB	CSUN300-60M-BB	CSUN295-60M-BB
Maximum Power - Pmax (W)	315	310	305	300	295
Open Circuit Voltage - Voc (V)	40.2	40.1	39.9	39.8	39.6
Short Circuit Current - Isc (A)	9.95	9.87	9.72	9.6	9.54
Maximum Power Voltage - Vmpp (V)	32.8	32.6	32.4	32.2	32
Maximum Power Current - Impp (A)	9.61	9.52	9.42	9.31	9.22
Module Efficiency	19.40%	19.09%	18.79%	18.48%	18.17%

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1,5; module temperature 25°C. Tolerance of Pmpp: 0~+3%.

Measuring uncertainty of power: ±3%.

Electrical Characteristics at Normal Operating Cell Temperature(NOCT)

Module Type	CSUN315-60M-BB	CSUN310-60M-BB	CSUN305-60M-BB	CSUN300-60M-BB	CSUN295-60M-BB
Maximum Power - Pmax (W)	234	230	227	223	219
Open Circuit Voltage - Voc (V)	37.2	37.1	36.9	36.8	36.6
Short Circuit Current - Isc (A)	8.04	7.98	7.86	7.76	7.71
Maximum Power Voltage - Vmpp (V)	30.8	30.6	30.5	30.4	30.2
Maximum Power Current - Impp (A)	7.59	7.52	7.42	7.33	7.27

Normal Operating Cell Temperature((NOCT) : irradiance 800W/m^2; wind speed 1 m/s ; cell temperature 45℃; ambient temperature 20℃.

Measuring uncertainty of power: ±3%.

Temperature Characteristics

NOCT	45℃ (±2℃)
Voltage Temperature Coefficient	-0.29%/K
Current Temperature Coefficient	+0.05%/K
Power Temperature Coefficient	-0.39%/K

Maximum Ratings

Maximum System Voltage [V]	1000
Series Fuse Rating [A]	20

Material Characteristics

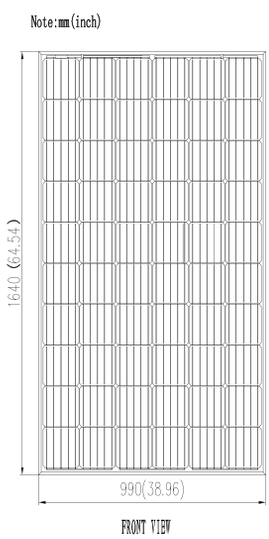
Dimensions	1640×990×35m (L×W×H)
Weight	18.3kg
Frame	Black anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6×10 pieces monocrystalline solar cells series strings (156.75mm×156.75mm)
Junction Box	Rated current≧13A, IP≧67, TUV&UL
Cable&Connector	Length 900mm, 1×4 mm^2, compatible with MC4

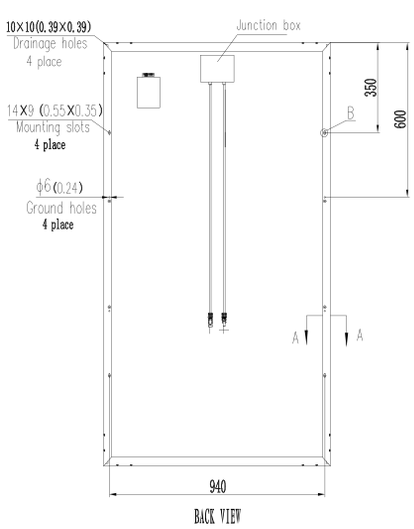
Packaging

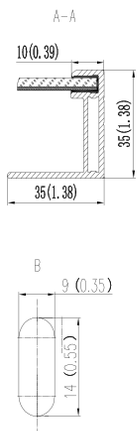
Dimensions(L×W×H)	1680×1110×1120mm
Container20'	360
Container40'	840
Container40'HC	910

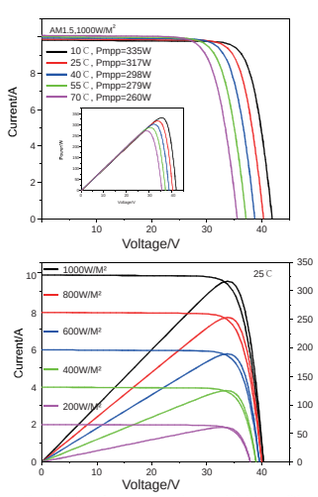
System Design

Temperature Range	-40 °C to + 85 °C
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m·s-1
Maximum Surface Load	5,400 Pa
Module Fire Performance	Type 1









Excellent performance under weaklight condition