

MONO

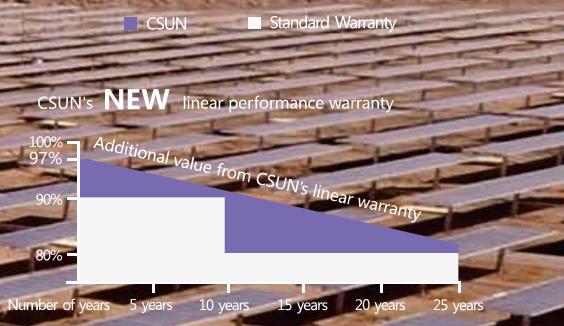


CSUN410-72MH

The Large Scale Project Solution

CSUN410-72MH
CSUN400-72MH
CSUN390-72MH

CSUN405-72MH
CSUN395-72MH
CSUN385-72MH



The power output shall not be less than 97% 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 0.68% per year thereafter, ending with 80.68% in the 25th year.

21.17%
Module efficiency

410W
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

- CSUN designs, manufactures and delivers high efficient solar cells and modules to the world from its production centers based in China, USA, Turkey, South Korea and Vietnam.
- Founded in 2004, CSUN is well known for its advanced solar cell technology, reliable product quality, and excellent customer service.
- As one of leading PV enterprises, CSUN has delivered more than 8 GW of solar products to residential, commercial, utility and off-grid projects all around the world.



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Electrical Characteristics at Standard Test Conditions(STC)

Module Type	CSUN410-72MH	CSUN405-72MH	CSUN400-72MH	CSUN395-72MH	CSUN390-72MH	CSUN385-72MH
Maximum Power - Pmax (W)	410	405	400	395	390	385
Open Circuit Voltage - Voc (V)	48.9	48.7	48.5	48.3	48.1	47.9
Short Circuit Current - Isc (A)	10.52	10.44	10.36	10.29	10.21	10.14
Maximum Power Voltage - Vmpp (V)	40.5	40.3	40.1	39.9	39.7	39.5
Maximum Power Current - Impp (A)	10.13	10.05	9.98	9.91	9.83	9.75
Module Efficiency	21.17%	20.91%	20.66%	20.40%	20.14%	19.88%

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	CSUN410-72MH	CSUN405-72M	CSUN400-72MH	CSUN395-72MH	CSUN390-72MH	CSUN385-72MH
Maximum Power - Pmax (W)	303	299	296	292	288	285
Open Circuit Voltage - Voc (V)	45.1	45	44.8	44.6	44.4	44.3
Short Circuit Current - Isc (A)	8.5	8.43	8.37	8.31	8.25	8.19
Maximum Power Voltage - Vmpp (V)	37.8	37.6	37.4	37.2	37.1	36.8
Maximum Power Current - Impp (A)	8.02	7.96	7.9	7.85	7.78	7.73

Normal Operating Cell Temperature(NOCT) : irradiance 800W/m²; wind speed 1 m/s ; cell temperature 45°C; ambient temperature 20°C.

Measuring uncertainty of power: ±3%.

Temperature Characteristics

NOTC	45°C (±2°C)	Maximum System Voltage [V]	1500
Voltage Temperature Coefficient	-0.307%/K	Series Fuse Rating [A]	20
Current Temperature Coefficient	+0.039%/K		
Power Temperature Coefficient	-0.423%/K		

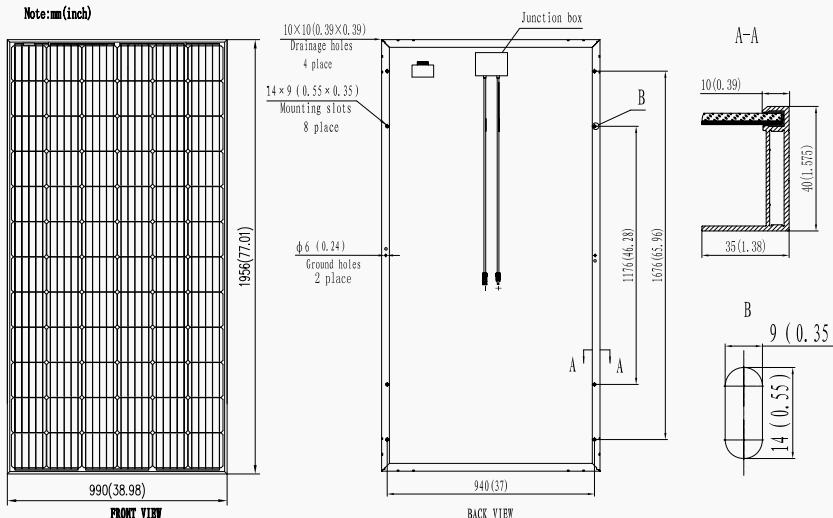
Material Characteristics

Dimensions	1956×990×40mm (L×W×H)
Weight	22.0kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6×12 pieces monocrystalline solar cells series strings (156.75mm×156.75mm)
Junction Box	Rated current≥13A, IP≥67, TUV&UL
Cable&Connector	Length 1200 mm, 1×4 mm ² , compatible with MC4

Packaging

Dimensions(L×W×H)	1980×1140×1120mm	Temperature Range	-40 °C to + 85 °C
Container20'	270	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m·s ⁻¹
Container40'	648	Maximum Surface Load	5,400 Pa
Container40'HC	708	Application class	class A

Dimensions



IV-Curves

