



# MATRIX

AUSTRALIAN SOLAR

## TIER 1

### BLOOMBERG

Listed Tier 1 PV Supplier



### Powerguard insurance global coverage

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



## CSUN310-72P

The Large Scale Project Solution

CSUN305-72P CSUN310-72P CSUN315-72P



## 16.32%

Module efficiency

## 310W

Highest power output

## 12 years

Material & Workmanship warranty

## 30 years

Linear power output warranty



PID-free



Innovated cell and module processing technology



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



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- Matrix Australian Solar's international partner was established in 2004 and 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, MAS has delivered more than 2.4GW of solar products to residential, commercial, utility and off-grid projects all around the world.
- All specifications, warranties, certifications about module MAS series also apply to that of "SST"

All information and data are subject to change without notice.



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## Electrical Characteristics at Standard Test Conditions (STC)

Module Type	CSUN315-72P	CSUN310-72P	CSUN305-72P
Maximum Power-Pmax (W)	315	310	305
Open Circuit Voltage - Voc (V)	45.4	45.3	45.2
Short Circuit Current - Isc (A)	9.00	8.94	8.87
Maximum Power Voltage - Vmpp (V)	37.1	36.9	36.7
Maximum Power Current - Imp (A)	8.49	8.40	8.31
Module Efficiency	16.26%	16.01%	15.75%

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	CSUN315-72P	CSUN310-72P	CSUN305-72P
Maximum Power-Pmax (W)	232.6	230.0	225.3
Open Circuit Voltage - Voc (V)	42.2	42.1	42.0
Short Circuit Current - Isc (A)	7.26	7.22	7.16
Maximum Power Voltage - Vmpp (V)	34.2	34.1	33.8
Maximum Power Current - Imp (A)	6.80	6.75	6.66

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	-0.292%/°C
Current Temperature Coefficient	+0.045%/°C
Power Temperature Coefficient	-0.408%/°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×156m)
Junction Box	Rated current ≥13A, IP ≥67, TUV & UL
Cable & Connector	Length 900mm, 1×4mm <sup>2</sup> , compatible with MC4

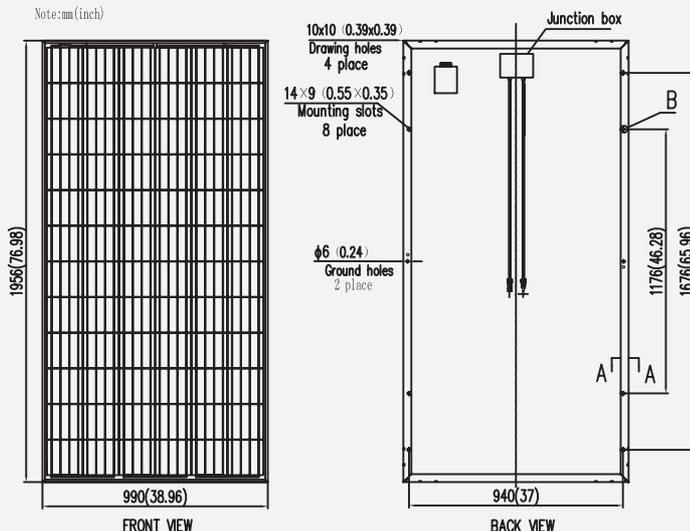
## Packaging

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

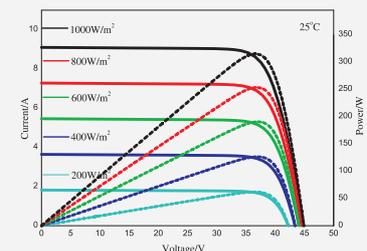
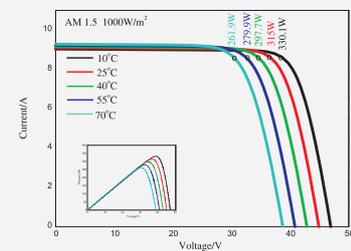
## System Design

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.

