

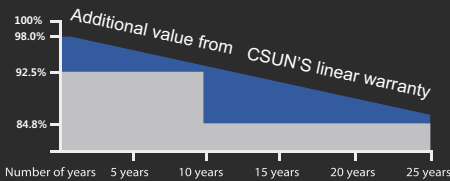
# Mars Series Half cell Modules

The power output shall not be less than 98.0% of the minimum power output stated in the product datasheet in the first year of the product's life cycle.

The loss of power output shall not exceed 0.55% per year thereafter, ending with 84.80% in the 25th year.

■ CSUN    ■ Standard warranty

CSUN's **NEW** linear performance warranty



# CSUN430-108M

High efficiency N-type solar module

Module Fire Performance: Type 1 (UL 1703)

Fire Resistance Rating: Class C (IEC 61730)

CSUN420-108M

CSUN425-108M

CSUN430-108M

**22.0%**  
Module efficiency

**430W**  
Highest power output

**12 Year**  
Material & workmanship warranty

**25 Year**  
Linear power output warranty



- Industry leading conversion efficiency
- Certificated to withstand wind (2400Pa) and snow load (5400Pa)
- Positive tolerance offer
- Excellent performance under weak light condition
- Passed salt mist & ammonia corrosion, blowing sand and hail testing
- Good temperature coefficient enables better output in hot climates

All information and data are subject to change without notice and are provided without liability.



[www.csunsolartech.com](http://www.csunsolartech.com)

## Electrical Characteristics at Standard Test Conditions (STC)

Module Type	CSUN420-108M	CSUN425-108M	CSUN430-108M
Maximum Power(Pmpp)[W]	420	425	430
Positive Power Tolerance[W]	0~5	0~5	0~5
Open Circuit Voltage(Voc)[V]	38.02	38.21	38.40
Short Circuit Current(Isc) [A]	14.05	14.13	14.21
Maximum Power Voltage(Vmpp)[V]	31.63	31.81	31.99
Maximum Power Current(Imp)[A]	13.28	13.36	13.44
Module Efficiency	21.5%	21.8%	22.0%

Electrical data relates to standard test conditions(STC): irradiance 1000W/m<sup>2</sup>; AM1.5; cell temperature 25°C measuring uncertainty of power is within ±3%. Certified in accordance with IEC61215, IEC61730-1/2 and UL1703.

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

Module Type	CSUN420-108M	CSUN425-108M	CSUN430-108M
Maximum Power(Pmpp)[W]	319.2	323.0	326.8
Open Circuit Voltage(Voc)[V]	35.35	35.52	35.68
Short Circuit Current(Isc) [A]	11.77	11.85	11.94
Maximum Power Voltage(Vmpp)[V]	29.01	29.16	29.29
Maximum Power Current(Imp)[A]	11.00	11.08	11.16

Electrical data relates to nominal operating cell temperature(NOCT): irradiance 800W/m<sup>2</sup>; wind speed 1m/s; cell temperature 45°C ambient temperature 20°C measuring uncertainty of power is within ±3%.

## Temperature Characteristics

Voltage Temperature Coefficient	-0.266%/°C
Current Temperature Coefficient	+0.046%/°C
Power Temperature Coefficient	-0.354%/°C

## Maximum Ratings

Maximum System Voltage(V)	1000/1500
Series Fuse Rating(A)	25
Reverse Current Overload(A)	25

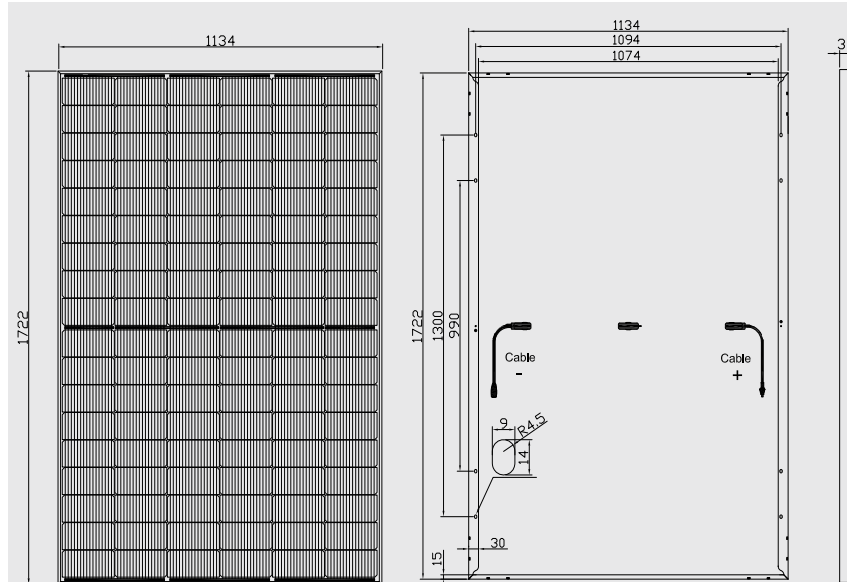
## Mechanical Characteristics

Dimensions	1722×1134×30mm - frame thickness upon request
Weight	21.0kg
Frame	Anodized aluminum profile
Front Glass	Toughened low iron glass, 3.2mm
Cell Encapsulation	EVA(Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cell	108(6×18) monocrystalline solar semi-cells (182×91 )
Junction Box	Rated current≥25A, IP68, TUV&UL
Cable	Length 300mm, 1×4mm <sup>2</sup>
Connector	MC4/compatible with MC4
Packaging	

## System Design

Container 20'	216pcs.	Temp. Range	-40°F to +185°F(-40°C to +85°C)
Container 40'HC	936pcs.	Hail	Max. diameter of 0.98"(25mm)with impact speed of 51.2mph(23m/s)
		Max. Capacity	Wind 2400Pa, snow 5400Pa upon request
		Application Class	A
		Safety Class	II

## Dimensions



## I-V CURVES

