

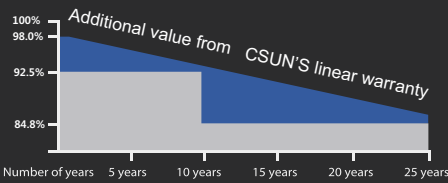
# Mars Series Half cell Modules

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.



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## 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

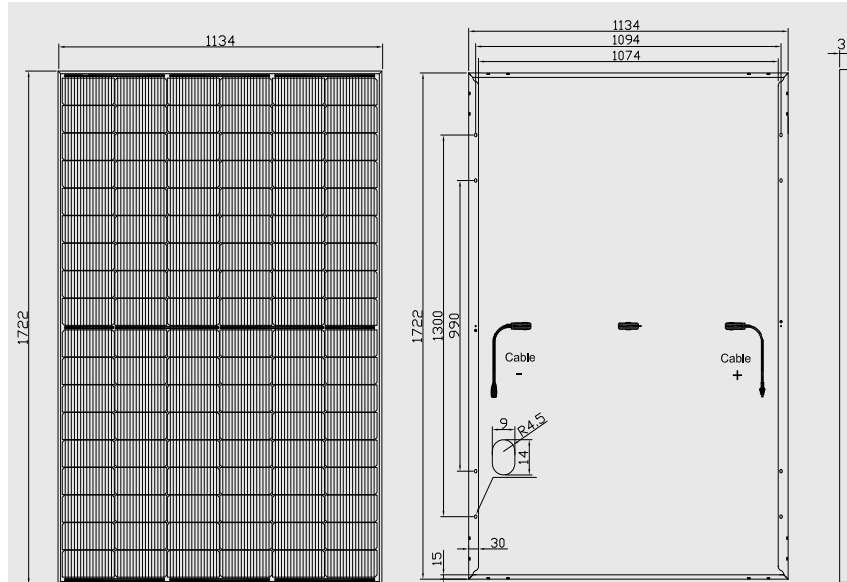
## Mechanical Characteristics

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

