Alpine Version

Enforced for high snow load

Mars Series
Half cell
Modules

CSU N555-144M

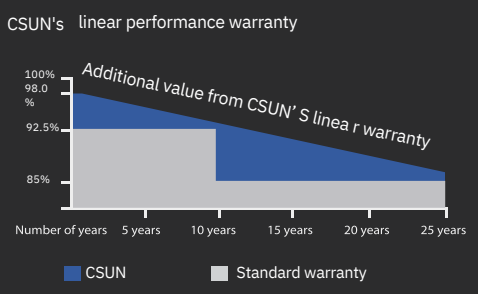
High effciency PERC tech. Black frame, transparent backsheet

Module Fire Performance:Type 1 (UL 1703)
Fire Resistance Rating:Class C (IEC 61730)

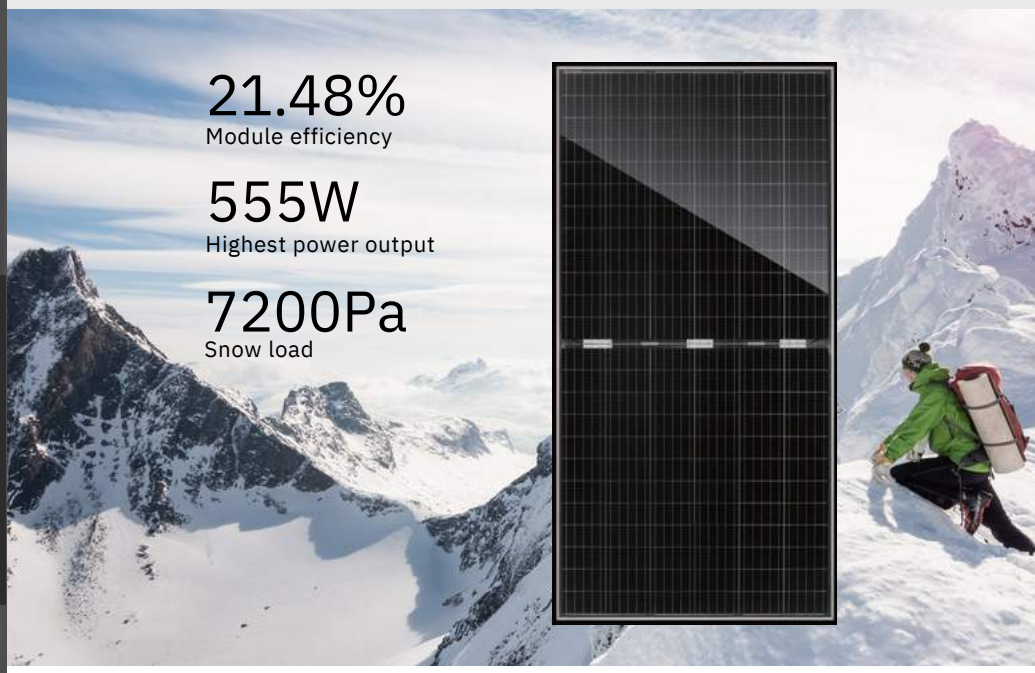
CSUN530-144M	CSUN535-144M
CSUN540-144M	CSUN545-144M
CSUN550-144M	CSUN555-144M

12yr.
Material&
workmanship warranty

25yr.
Linear power output
warranty



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 0.54% per year thereafter, ending with 85%after25years.



21.48%
Module efficiency

555W
Highest power output

7200Pa
Snow load

- ndustry leading conversion efficiency
- Certificated to withstand wind (2400Pa) and snow load(7200Pa)
- 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

Produced in colaboration with Suncel AS.
For more info contact salg@suncel.no

Electrical Characteristics at Standard Test Conditions (STC)

Module Type	CSUN530-144M	CSUN535-144M	CSUN540-144M	CSUN545-144M	CSUN550-144M	CSUN555-144M
Maximum Power(Pmpp)[W]	530	535	540	545	550	555
Positive Power Tolerance[W]	0~5	0~5	0~5	0~5	0~5	0~5
Open Circuit Voltage(Voc)[V]	49.20	49.35	49.50	49.65	49.80	49.90
Short Circuit Current(Isc) [A]	13.71	13.78	13.85	13.92	13.98	14.53
Maximum Power Voltage(Vmpp)[V]	41.35	41.50	41.65	41.80	41.95	42.15
Maximum Power Current(Impp)[A]	12.82	12.90	12.97	13.04	13.12	13.16
Module Efficiency	20.51%	20.70%	20.89%	21.09%	21.28%	21.48%

Electrical data relates to standard test conditions(STC): irradiance 1000W/m2; AM1.5; cell temperature 25℃ measuring uncertainty of power is within ±3%. Certified in accordance with IEC61215,IEC61730-1/2 and UL1703.

Electrical characteristics with different rear side power gain (refer to 555W)

Pmax gain	Pmax/W	Vmp/V	Imp/A	Voc/V	Isc/A
5%	557	41.32	13.47	49.32	14.41
10%	583	41.32	14.11	49.32	15.09
15%	610	41.32	14.75	49.32	15.78
20%	636	41.32	15.40	49.32	16.46
25%	663	41.32	16.04	49.32	17.15

Temperature Characteristics

Voltage Temperature Coefficient	-0.28%/℃
Current Temperature Coefficient	+0.048%/℃
Power Temperature Coefficient	-0.35%/℃

Maximum Ratings

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

Mechanical Characteristics

Dimensions	2279×1134×35mm
Weight	29.1kg
Frame	Anodized aluminum profile-black frame upon request
Front Glass	Toughened low iron glass,3.2mm
Cell	JA Solar: PERC
Encapsulation	Jollywood: TPE Transparent back sheet
Back Sheet	144(6×24) monocrystalline solar semi-cells BIFACIAL(182×91)
Cell	Rated current≥25A, IP≥65, TUV&UL
Junction Box	LHPV
Cable	Length 1100mm,1×24mm
Connector	Staubli MC4

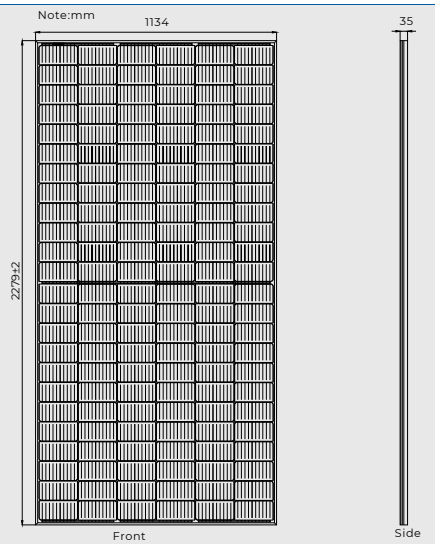
Packaging

Container 20'	180pcs.
Container 40'	360pcs.
Container 40'HC	620pcs.

System Design

Temp.Range	-40°F to +185°F(-40℃ to +85℃)
Hail	Max. diameter of 0.98"(25mm)with impact speed of 51.2mph(23m/s)
Max.Capacity	Wind 2400Pa, snow Max.7200P
Application Class	A
Safety Class	II

Dimensions



I-V Curves