

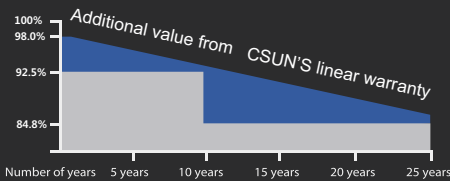
Mono Bifacial Modules

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



CSUN550-144M-DS

High Efficiency Low LID Bifacial PERC Technology

Module Fire Performance: Type 1 (UL 1703)

Fire Resistance Rating: Class C (IEC 61730)

CSUN530-144M-DS

CSUN535-144M-DS

CSUN540-144M-DS

CSUN545-144M-DS

CSUN550-144M-DS

21.28%

Module efficiency

550W

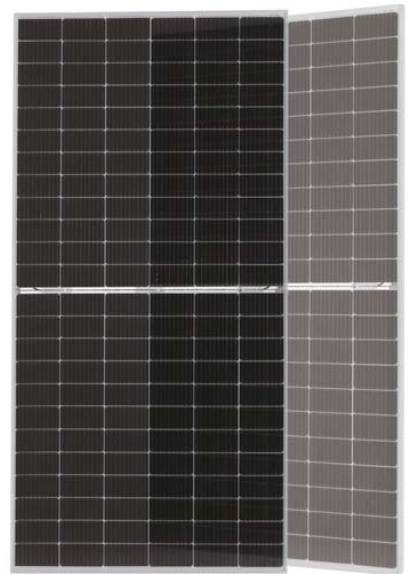
Highest power output

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

Munich RE
Munich Re providing Re in surance



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Electrical Characteristics at Standard Test Conditions (STC)

Module Type	CSUN530-144M-DS	CSUN535-144M-DS	CSUN540-144M-DS	CSUN545-144M-DS	CSUN550-144M-DS
Maximum Power(Pmpp)[W]	530	535	540	545	550
Positive Power Tolerance[W]	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
Short Circuit Current(Isc) [A]	13.71	13.78	13.85	13.92	13.98
Maximum Power Voltage(Vmpp)[V]	41.35	41.50	41.65	41.80	41.95
Maximum Power Current(Imp)[A]	12.82	12.90	12.97	13.04	13.12
Module Efficiency	20.51%	20.70%	20.89%	21.09%	21.28%

Electrical data relates to standard test conditions(STC): irradiance 1000W/m²; 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	CSUN530-144M-DS	CSUN535-144M-DS	CSUN540-144M-DS	CSUN545-144M-DS	CSUN550-144M-DS
Maximum Power(Pmpp)[W]	395	399	403	406	410
Open Circuit Voltage(Voc)[V]	45.71	45.85	45.99	46.12	46.26
Short Circuit Current(Isc) [A]	11.08	11.13	11.19	11.25	11.30
Maximum Power Voltage(Vmpp)[V]	38.29	38.43	38.57	38.71	38.85
Maximum Power Current(Imp)[A]	10.32	10.38	10.44	10.50	10.56

Electrical data relates to nominal operating cell temperature(NOCT): irradiance 800W/m²; wind speed 1m/s; cell temperature 45°C ambient temperature 20°C measuring uncertainty of power is within ±3%.

Bifacial Output-rearside Power Gain(STC)

Pmax Gain	Module Type	CSUN530-144M-DS	CSUN535-144M-DS	CSUN540-144M-DS	CSUN545-144M-DS	CSUN550-144M-DS
5%	Maximum Power (Pmax)	557	562	567	572	578
	Module Efficiency STC (%)	21.53%	21.74%	21.94%	22.14%	22.35%
15%	Maximum Power (Pmax)	610	615	621	627	633
	Module Efficiency STC (%)	23.58%	23.81%	24.03%	24.25%	24.47%
25%	Maximum Power (Pmax)	663	669	675	681	688
	Module Efficiency STC (%)	25.63%	25.88%	26.12%	26.36%	26.60%

Temperature Characteristics

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

Maximum Ratings

Maximum System Voltage(V)	1000/1500
Series Fuse Rating(A)	30
Reverse Current Overload(A)	30

Mechanical Characteristics

Dimensions	2279×1134×35mm - frame thickness upon request	Weight	29.1kg
Frame	Anodized aluminum profile-black frame upon request	Cell	144(6×24) monocrystalline solar semi-cells (182×91)
Front Glass	Toughened low iron glass, 3.2mm	Back Sheet	Transparent film
Cell Encapsulation	EVA(Ethylene-Vinyl-Acetate)	Connector	MC4/compatible with MC4
Junction Box	Rated current≥30A, IP≥65, TUV&UL	Cable	Length 300mm,1×4mm ²

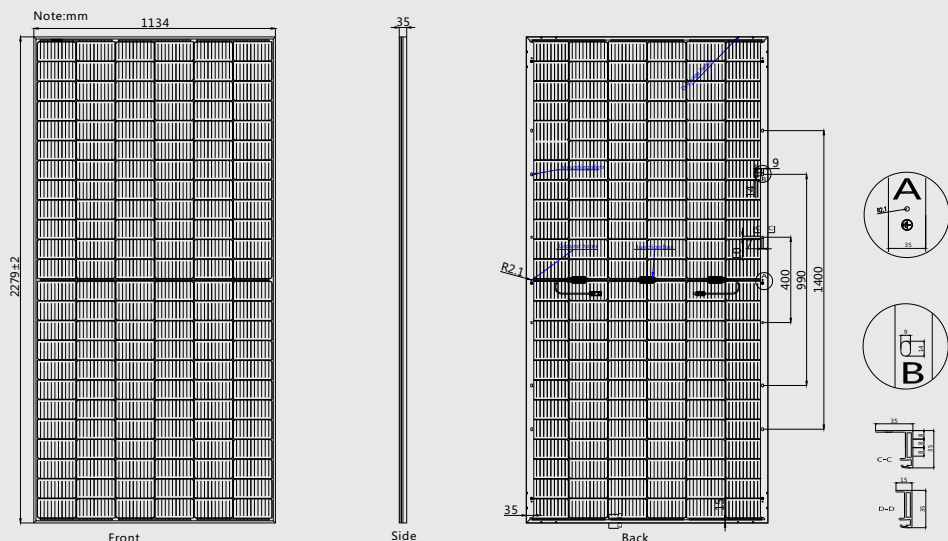
Packaging

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

System Design

Temp.Range	-40°F to +185°F(-40°C to +85°C)
Hail	Max. diameter of 0.98"(25mm)with impact speed of 51.2mph(23m/s)
Max.Capacity	Wind 2400Pa, snow 5400Pa-7200Pa upon request
Application Class	A
Safety Class	II

Dimensions



I-V Curves

