

CSUN580-144M-DG

BIFACIAL MODULE WITH DUAL GLASS
N-type

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

CSUN560-144M-DG

CSUN565-144M-DG

CSUN570-144M-DG

CSUN575-144M-DG

CSUN580-144M-DG

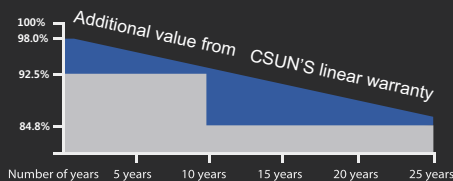
Mono Bifacial Modules

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



22.45%

Module efficiency

580W

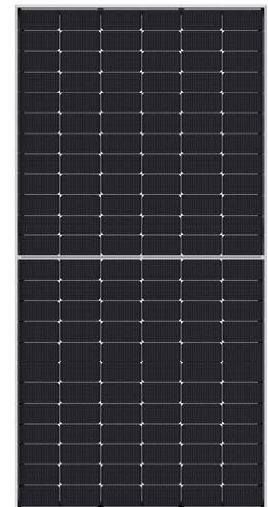
Highest power output

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



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Electrical Characteristics at Standard Test Conditions (STC)

Module Type	CSUN560-144M-DG	CSUN565-144M-DG	CSUN570-144M-DG	CSUN575-144M-DG	CSUN580-144M-DG
Maximum Power(Pmpp)[W]	560	565	570	575	580
Positive Power Tolerance[W]	0~5	0~5	0~5	0~5	0~5
Open Circuit Voltage(Voc)[V]	50.67	50.87	51.07	51.27	51.47
Short Circuit Current(Isc) [A]	14.13	14.19	14.25	14.31	14.37
Maximum Power Voltage(Vmpp)[V]	41.95	42.14	42.29	42.44	42.59
Maximum Power Current(Imp)[A]	13.35	13.41	13.48	13.55	13.62
Module Efficiency	21.68%	21.87%	22.07%	22.26%	22.45%

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	CSUN560-144M-DG	CSUN565-144M-DG	CSUN570-144M-DG	CSUN575-144M-DG	CSUN580-144M-DG
Maximum Power(Pmpp)[W]	421	425	429	432	436
Open Circuit Voltage(Voc)[V]	48.13	48.32	48.51	48.70	48.89
Short Circuit Current(Isc) [A]	11.41	11.46	11.50	11.55	11.60
Maximum Power Voltage(Vmpp)[V]	39.39	39.52	39.65	39.78	39.87
Maximum Power Current(Imp)[A]	10.69	10.75	10.81	10.87	10.94

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	CSUN560-144M-DG	CSUN565-144M-DG	CSUN570-144M-DG	CSUN575-144M-DG	CSUN580-144M-DG
5%	Maximum Power (Pmax)	588	593	599	604	609
15%	Maximum Power (Pmax)	644	650	656	661	667
25%	Maximum Power (Pmax)	700	706	713	719	725

Temperature Characteristics

Voltage Temperature Coefficient	-0.29%/°C
Current Temperature Coefficient	+0.045%/°C
Power Temperature Coefficient	-0.25%/°C

Maximum Ratings

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

Mechanical Characteristics

Dimensions	2278×1134×30mm - frame thickness upon request	Weight	32.0kg
Frame	Anodized aluminum profile-black frame upon request	Cell	N-type 144(6×24) monocrystalline solar semi-cells (182×91)
Front Glass	2.0mm, Anti-Reflection Coating	Back Glass	2.0mm, Heat Strengthened Glass
Cell Encapsulation	EVA(Ethylene-Vinyl-Acetate)	Connector	MC4/compatible with MC4
Junction Box	Rated current≥25A, IP68, TUV&UL	Cable	Length 300mm,1×4mm²

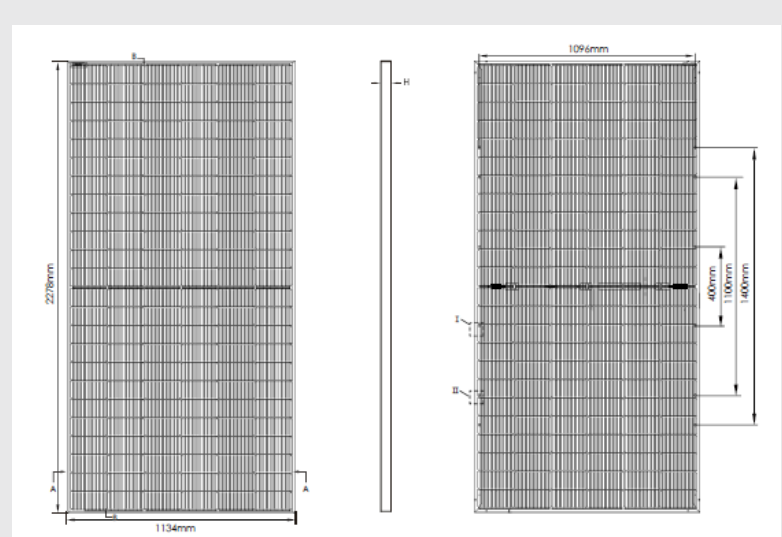
Packaging

Container 20'	180pcs.
Container 40' HC	720pcs.

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

