

N type Mono-crystalline

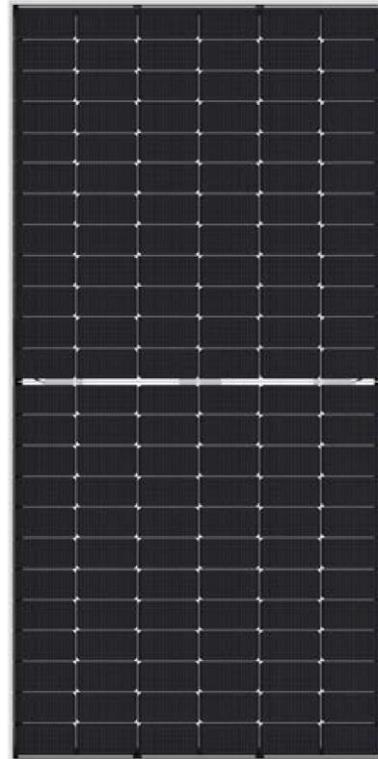
545-570 Watt

0~+3% POWER TOLERANCE

High efficiency N - type Double glass solar module

Cell Busbar

16BB



Module characteristics



Double power generation

For higher power output, backside power generation can be increased by up to 25%



Better attenuation

N-type, Components have better reliability and lower LID/LETID attenuation



PID resistance

The attenuation probability of PID phenomenon is minimized through battery production technology optimization and material control



Harsh environmental adaptation

Third party certification passed high salt spray and high ammonia corrosion test



Multiple grid and Half cell technique

More light utilization and current collection capabilities, effectively improving product power output and reliability



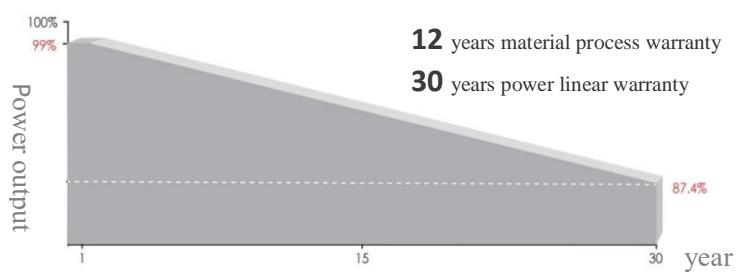
Long and reliable quality assurance

IEC61215 (2016), IEC61730 (2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



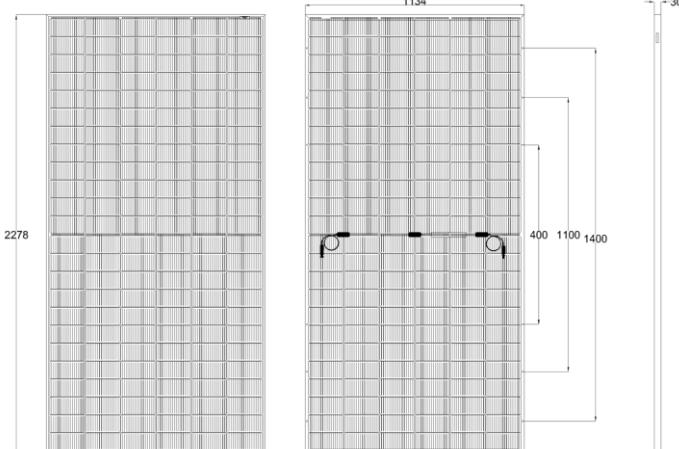
Electrical Parameters

Model Type	MSP545HN		MSP550HN		MSP555HN		MSP560HN		MSP565HN		MSP570HN									
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT								
Maximum Power (Pmax)	545	410	550	413	555	417	560	421	565	425	570	429								
Open Circuit Voltage (Voc)	50.08	47.58	50.21	47.70	50.34	47.82	50.47	47.94	50.60	48.06	50.74	48.20								
Short Circuit Current (Isc)	13.91	11.24	13.99	11.30	14.07	11.36	14.15	11.42	14.23	11.49	14.31	11.55								
MaximumPowerVoltag (VmP)	41.38	38.86	41.51	38.99	41.64	39.12	41.77	39.25	41.92	39.38	42.07	39.51								
MaximumPowerCurrent (ImP)	13.18	10.55	13.26	10.61	13.33	10.67	13.41	10.73	13.48	10.79	13.55	10.85								
ModuleEfficiency - η_m (%)	21.1		21.3		21.5		21.7		21.9		22.1									
Operational Temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$																			
Maximum System Voltage	1500VDC																			
Maximum Series Fuse Rating	25A																			
Power Tolerance	$0 \sim +3\%$																			
Temperature Coefficient of Pmax	$-0.310\%/\text{ }^{\circ}\text{C}$																			
Temperature Coefficient of Voc	$-0.260\%/\text{ }^{\circ}\text{C}$																			
Temperature Coefficient of Isc	$+0.046\%/\text{ }^{\circ}\text{C}$																			
Nominal Operating Cell Temperature	$45 \pm 2\text{ }^{\circ}\text{C}$																			
Safety Class	Class II																			
Max Load (Front/back)	5400Mpa/2400Mpa																			
Double rate	$75 \pm 10\%$																			
STC: Irradiance 1000W/m ²	Battery temperature 25°C	Atmospheric quality =1.5																		
NOCT:Irradiance 800W/m ²	Ambient emperature 25°C	Atmospheric quality =1.5									Wind speed 1m/S									

Two-sided power gain (take 15% irradiation ratio on the back side as an example)

Maximum power	627Wp	633Wp	638Wp	644Wp	650Wp	656Wp
Irradiation ratio				15%		

Mechanical Diagrams

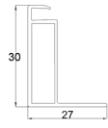


Length: $\pm 2\text{mm}$

Width: $\pm 2\text{mm}$

Thickness: $\pm 1\text{mm}$

Hole pitch: $\pm 2\text{mm}$

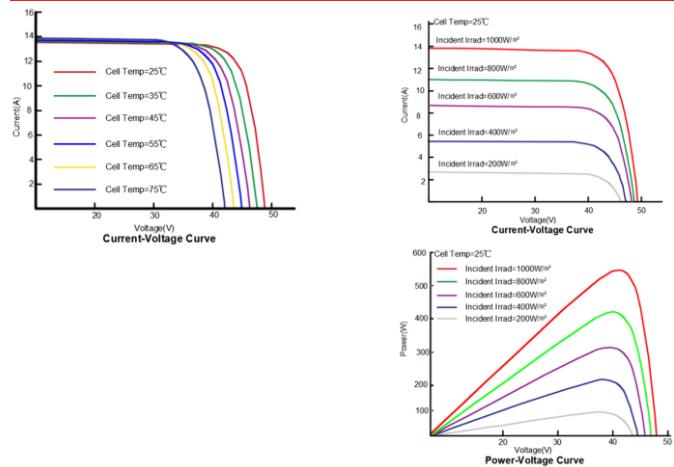


Packing standard

35pcs/pallet, Pallet size: 2333×1130×1245mm

40GP:20pallets/container, 700pcs/container.

Curve figure



Specification

Cell type N type mono crystalline 16BB

Half-cell quantity 144 (6×24)

Dimension 2278 (± 2) ×1134×30

weight 32kg $\pm 3\%$

Front glass 2.0 mm,Coated toughened

Back glass 2.0mm,Transparent/grid optional

Frame Slivery/black Anodized Aluminum Alloy

Junction Box IP68

Cable 300mm (can be customized)