

## Module HC 144 550-560 Watt

Positive power tolerance of 0~+3%  
HALF CELL - MONO PERC 144 CELL



### Complete System and Product Certifications

IEC 61215, IEC 61730, IEC61701, UL 61730

ISO9001:2015 : ISO Quality Management System

ISO14001: 2015 : ISO Environment Management System

ISO45001:2018 : Occupational Health and Safety



## KEY FEATURES



### Multi Busbar Solar Cell

Multi busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



### High Efficiency

Higher module conversion efficiency (up to 21.68%) benefit from half cell structure (low resistance characteristic).



### PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.



### Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



### Severe Weather Resilience

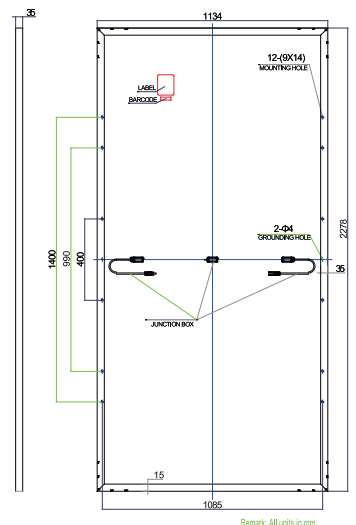
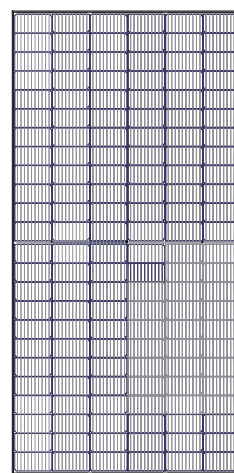
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

## ENGINEERING DRAWINGS

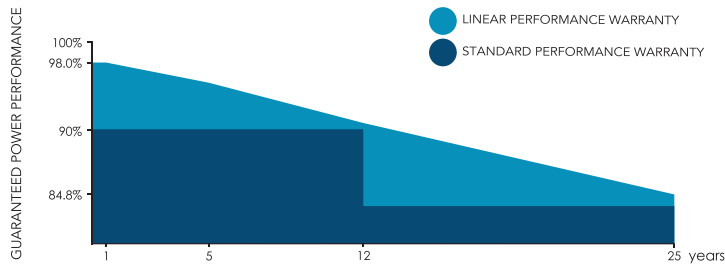


## PACKAGING CONFIGURATION

(Two pallets = One stack)

31pcs/pallet , 62pcs/stack, 682pcs/53FT Truck

## LINEAR PERFORMANCE WARRANTY



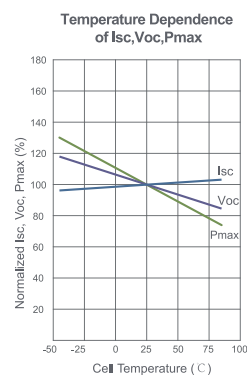
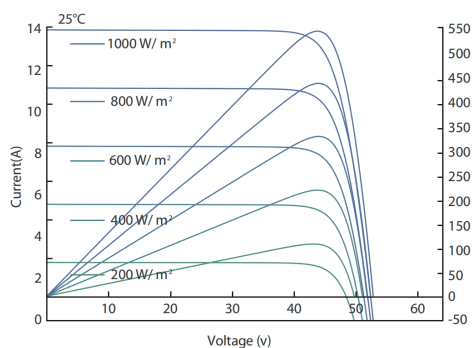
Up to 25-Year Product Warranty

25-Year Linear Power Warranty

## MECHANICAL CHARACTERISTICS

Cell Type	Mono PERC 182x91mm
No. of Half-cells	144 (6x24)
Dimensions	2278x1134x35mm (89.68x44.64x1.37 inch)
Weight	28.0 kg (61.7 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated, connector compatible with MC4
Output Cables	TÜV 1x4.0mm 450mm/1200mm or Customized Length
Fire Rating	UL: Type 1, IEC: Class C
Maximum static load	5400Pa (front side), 2400Pa (back side)

## ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



## SPECIFICATIONS

Module Type	SE-182*91-550M-144		SE-182*91-555M-144		SE-182*91-560M-144	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	550W	412W	555W	416W	560W	420W
Maximum Power Voltage (Vmp)	41.99	38.99	42.14	39.13	42.29	39.27
Maximum Power Current (Imp)	13.10	10.57	13.17	10.63	13.24	10.69
Open-circuit Voltage (Voc)	49.72	46.83	49.87	46.98	50.02	47.12
Short-circuit Current (Isc)	14.02	11.28	14.08	11.32	14.14	11.37
Module Efficiency STC (%)	21.31%		21.48%		21.68%	
Operating Temperature (°C)	-40°C~+85°C					
Maximum System Voltage	1500VDC (IEC)					
Maximum Series Fuse Rating	25A					
Power Tolerance	0~+3%					
Temperature Coefficients of Pmax	-0.35%/°C					
Temperature Coefficients of Voc	-0.29%/°C					
Temperature Coefficients of Isc	0.048%/°C					
Nominal Operating Cell Temperature (NOCT)	45±2°C					

**STC:** ☀ Irradiance 1000W/m<sup>2</sup>

🌡 Cell Temperature 25°C

☁ AM=1.5

**NOCT:** ☀ Irradiance 800W/m<sup>2</sup>

🌡 Ambient Temperature 20°C

☁ AM=1.5

🌀 Wind Speed 1m/s

Power measurement tolerance: ± 3%

Contact us!

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