

Module HC 144

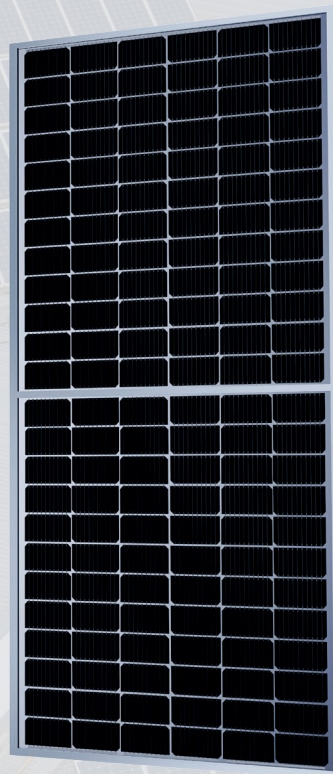
550-560 Watt

Positive power tolerance of 0~+3%

HALF CELL - MONO PERC 144 CELL
BIFACIAL MODULE



UL61730 certified product



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 21.29% 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

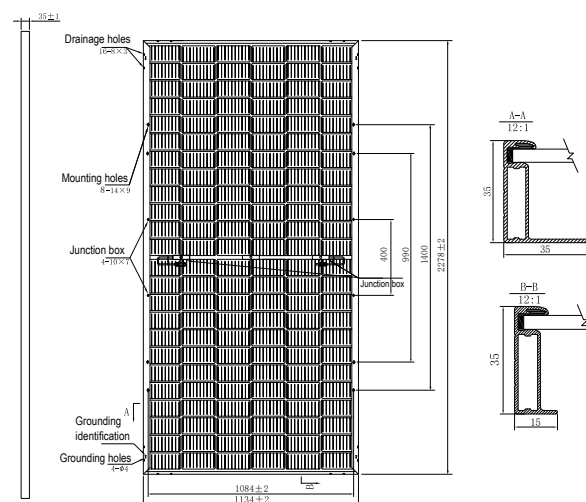
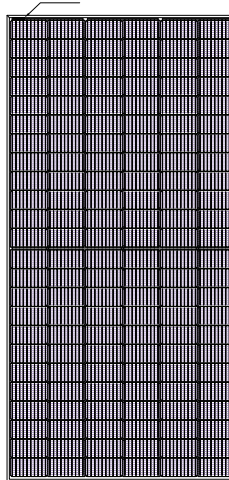
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

Barcode 1



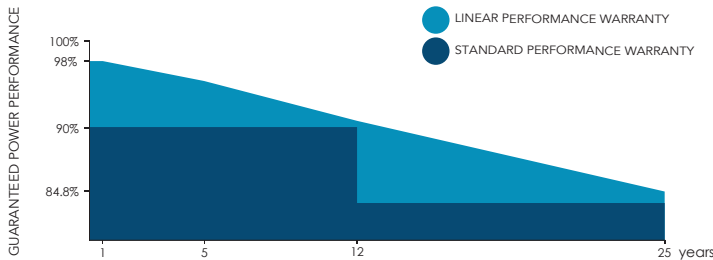
ENGINEERING DRAWINGS

PACKAGING CONFIGURATION

(Two pallets = One stack)

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

LINEAR PERFORMANCE WARRANTY



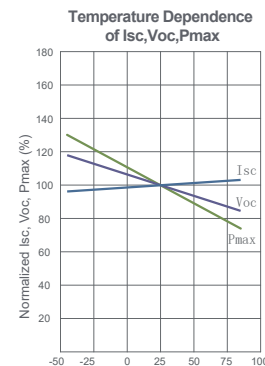
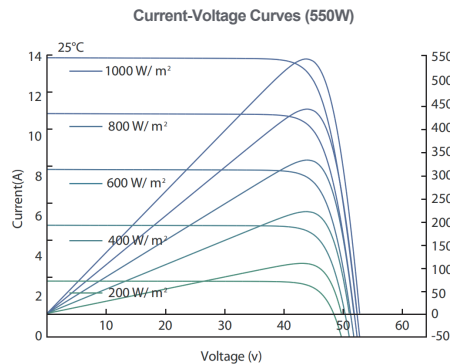
12-Year Product Warranty

25-Year Linear Power Warranty

MECHANICAL CHARACTERISTICS

Cell Type	Mono PERC 182×91mm
No. of Half-cells	144 (6×24)
Dimensions	2278×1134×35mm (89.68×44.64×1.37 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 Stäubli MC4
Output Cables	TÜV 1x4.0mm ² , 1200mm or Customized Length
Fire Rating	UL: Type 4, IEC: Class C
Maximum static load	5400Pa(front side), 2400Pa(back side)

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



SPECIFICATIONS

Module Type	SE-182*91-550M-144-BH		SE-182*91-555M-144-BH		SE-182*91-560M-144-BH	
	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 (%)	21.29%		21.48%		21.68%	
Operating Temperature (°C)	-40°C ~ +85°C					
Maximum System Voltage	1500VDC (IEC)					
Power Tolerance	[0,+5W]					

Electrical characteristics with different rear side power gain (reference to 550W STC front)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
577	49.72	14.72	41.99	13.75	5%
605	49.72	15.42	41.99	14.41	10%
632	49.82	16.12	42.09	15.03	15%
660	49.82	16.82	42.09	15.68	20%
687	49.82	17.53	42.09	16.33	25%

STC: Irradiance 1000W/m²

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m²

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

* Power measurement tolerance: ± 3%

Contact us!

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