

## HiMAX 5C

# 415-450W

## SP450M-54H

High Efficiency Back Contact  
Solar PV Module

### High-efficiency Cells

The cell efficiency is higher than 25%.

### Outstanding Performance

HiMAX 5C improves power generation capacity greatly with comprehensive upgrade of Back Contact cells and modules.

### Aesthetic Appearance

HiMAX 5C simplifies the complexity and redefines the aesthetic concept of photovoltaic modules.

### Market-leading Reliability

HiMAX 5C pioneers the adoption of full back welding technology to efficiency improve the resistance to micro cracking of mouldles.

### Optimized Balance of System(BOS)

Significant savings on mounting structure, cabling, and labour cost.

### Quality Management System and Product Certification

IEC61215, IEC 61730, UL 61730

ISO9001: 2015: ISO Quality Management System

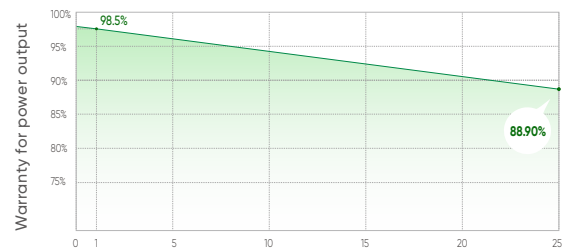
ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: occupation health and safety

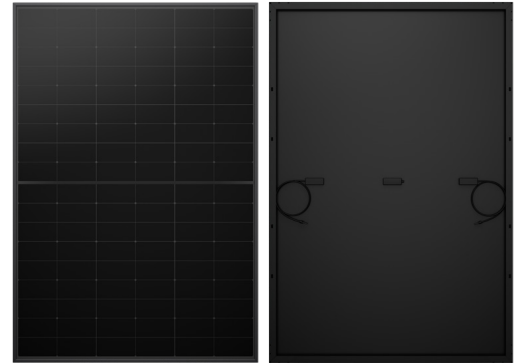
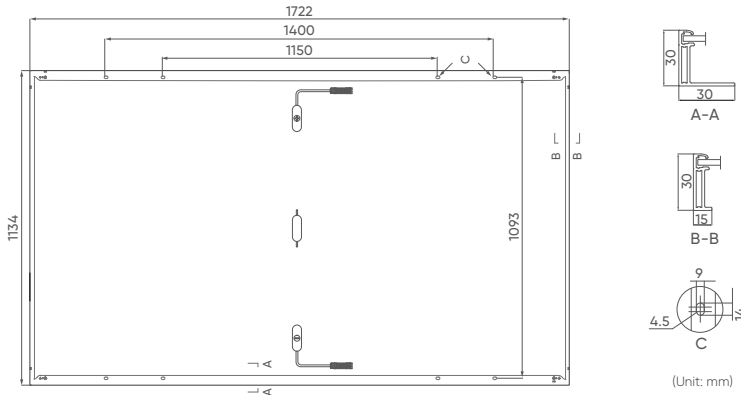
IEC62941: Guideline for module design qualification type approval

### Quality Guarantee

**15 YEAR** Warranty for Materials and Processing **25 YEAR** Warranty for Extra Linear OutPut



## Drawings



## Mechanical Characteristics

Cell Orientation	108 (6×18)
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , ±1200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminium alloy frame
Weight	20.8kg
Dimension	1722 × 1134 × 30mm
Packaging	36pcs per pallet / 216pcs per 20'GP / 936pcs per 40'HC
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone	25mm Hailstone at the speed of 23m/s

## Operating Characteristics

Operating Module Temperature	-40°C~ +85°C
Power Output Tolerance	0~3%
VOC and Isc Tolerance	±3%
Maximum Series Voltage	DC1500 (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C

## Temperature Characteristics

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Pmax	-0.230%/°C
Temperature Coefficient of Voc	-0.290%/°C

## Electrical Parameters (STC\*)

Module Type: SP450M-54H	415	420	425	430	435	440	445	450
Maximum power (Pmax/W)	415	420	425	430	435	440	445	450
Open Circuit Voltage (Voc/V)	38.83	39.03	39.23	39.43	39.63	39.83	40.03	40.23
Short Circuit Current (Isc/A)	13.78	13.85	13.93	14.00	14.08	14.15	14.23	14.31
Voltage at Maximum power (Vmpp/V)	32.56	32.76	32.96	33.16	33.36	33.56	33.76	33.96
Current Maximum Power (Impp/A)	12.75	12.83	12.90	12.97	13.05	13.12	13.19	13.27
MODULE EFFICIENCY (%)	21.3	21.5	21.8	22.0	22.3	22.5	22.8	23.0

## Electrical Parameters (NOCT\*)

Maximum power (Pmax)	310	314	318	321	325	329	333	337
Open Circuit Voltage (Voc/V)	36.46	36.65	36.83	37.02	37.21	37.40	37.58	37.77
Short Circuit Current (Isc/A)	11.13	11.19	11.25	11.31	11.37	11.43	11.49	11.55
Voltage at Maximum power (Vmpp/V)	29.71	29.89	30.08	30.26	30.44	30.62	30.81	30.99
Current Maximum Power (Impp/A)	10.44	10.50	10.56	10.62	10.68	10.75	10.82	10.88

\*STC: AM1.5 1000W/m<sup>2</sup> 25°C    \*NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s