

# 182 SMART H54(H) | Multi Busbar Monocrystalline Half Cell PV Module

Power Output :  
 Power Tolerance : 0W ~ +5W  
 Maximum Efficiency : 21.5%



## Electrical performance parameters | STC

Power Output	Pmax(W)	385	390	395	400	405	410	415	420
Rated Power Maximum Voltage	Vmp(V)	30.50	30.60	30.80	31.00	31.20	31.40	31.60	31.80
Rated Power Maximum Current	Imp(A)	12.64	12.73	12.81	12.90	12.98	13.04	13.13	13.22
Open Circuit Voltage	Voc(V)	36.70	36.90	37.00	37.10	37.20	37.30	37.50	37.70
Short Circuit Current	Isc(A)	13.52	13.61	13.70	13.79	13.87	13.95	14.02	14.09
Module Efficiency	(%)	19.7	20.0	20.2	20.5	20.7	21.0	21.3	21.5
Power Tolerance	(W)	0 ~ +5W							

\* STC : 1000W/m2 irradiance, 25°C module temperature, AM1.5 spectrum. Power measurement error +/- 3%

## Electrical performance parameters | NMOT

Power output	Pmax (W)	291.4	295.2	299.0	302.8	306.6	310.4	314.2	317.9
Rated Power Maximum Voltage	Vmp (V)	28.27	28.37	28.55	28.74	28.92	29.11	29.29	29.48
Rated Power Maximum Current	Imp (A)	10.30	10.37	10.44	10.51	10.58	10.63	10.70	10.77
Open Circuit Voltage	Voc (V)	34.64	34.83	34.93	35.02	35.11	35.21	35.40	35.59
Short Circuit Current	Isc (A)	10.82	10.89	10.96	11.03	11.10	11.16	11.21	11.27

\* NMOT:800W/m2 irradiance, 20°C module temperature, 1m/s wind speed. Power measurement error +/- 3%

## Structure Features

Solar Cell	182MONO(Half Cell)
Solar Cell Array	108 pcs(6×18)
Module Dimension	1722×1134×35mm
Weight	20.8 kg
Glass	3.2 mm (0.13 inches) highly transparent anti-reflection coating tempered glass
Back sheet	Black
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm <sup>2</sup> , L=300 mm, PV cable
Diode Quantity	3
Wind Pressure/Snow Pressure	2400pa / 5400pa
Connector	MC4 Compatible

\* More details please read the installation manual.

### Temperature Characteristics

Solar Cells Rated Working Temperature	44±2°C
Temperature Coefficient (Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.35%/°C
Temperature Coefficient (Pmax)	-0.38%/°C

### Optional

- Connector  Original MC4
- Cable length  1000mm  900mm
- Frame  Silver
- Back sheet color  White  Transparency

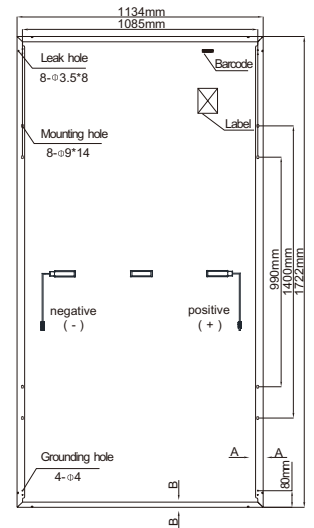
### Maximum Ratings

Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	25A

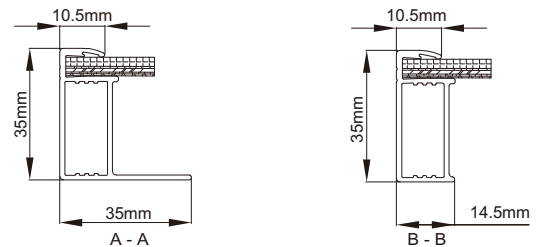
### Packaging

- Number of modules per pallet 31 pcs
- 17.5\*2.8m Flatbed loading 1178 pcs
- 13.0\*2.35m Flatbed loading 868 pcs
- Standard container 40HQ 806 pcs

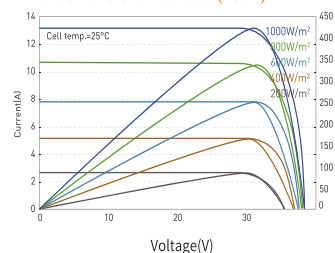
### Module Dimension



### Back View



I-V curves/P-V curves of module under different irradiation(405w)



I-V curves of module under different temperature(405w)

