

# OSA-108M(182)

## 395-410 Watt

HALF-CELL MBB MONO PERC

### Key Features



#### Multi Busbar Solar Cell

Stronger current collection ability, Special circuit design with much lower hot spot temperature;



#### PID Resistant

Excellent PID resistance at 96 hours (85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment;



#### Anti-Crack

Excellent anti-microcracking performance with more balanced interior stress;



#### Module efficiency up to 21.01%

Half cell structure brings low resistance characteristic, higher lifetime generating capacity, simultaneously lower annual power attenuation;



#### Low-Light Performance

Excellent power generation performance under Low-Light condition due to multi busbar; better shading response benefit from half cell module;

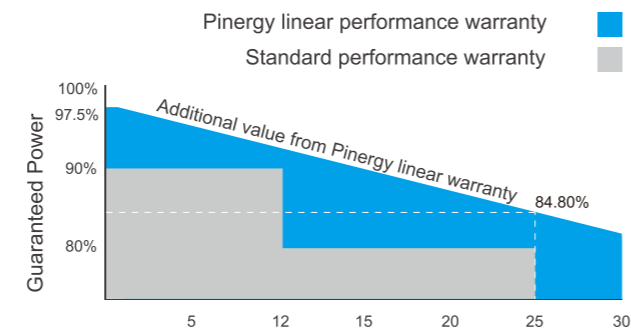


#### Strength and Durability

Certified for 5400Pa snow and 2400Pa Wind loads test;

### Linear Performance Warranty

12 Years Product Warranty · 30 Years Linear Power Warranty



### Certifications

- IEC 61215, IEC 61730, CE, CQC
- ISO9001: 2015: Quality management system
- ISO14001: 2015: Environmental management system
- ISO45001: 2018: Occupational health and safety management system



### Electrical Specifications

Module Type	OSA-108M-395		OSA-108M-400		OSA-108M-405		OSA-108M-410	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition								
Rated output (Pmp/Wp)	395	297	400	301	405	305	410	309
Rated voltage (Vmp/V)	30.9	29.0	31.1	29.2	31.2	29.4	31.4	29.6
Rated current (Imp/A)	12.81	10.23	12.88	10.31	12.97	10.38	13.05	10.45
Open circuit voltage (Voc/V)	37.0	34.8	37.1	34.9	37.2	35.1	37.4	35.3
Short circuit current (Isc/A)	13.68	10.93	13.77	11.01	13.86	11.10	13.95	11.17
Module efficiency (%)	20.25%		20.50%		20.76%		21.01%	
Power Tolerance (W)	0~+5							

Standard Test Condition (STC): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5

Nominal Module Operating Temperature (NOCT): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

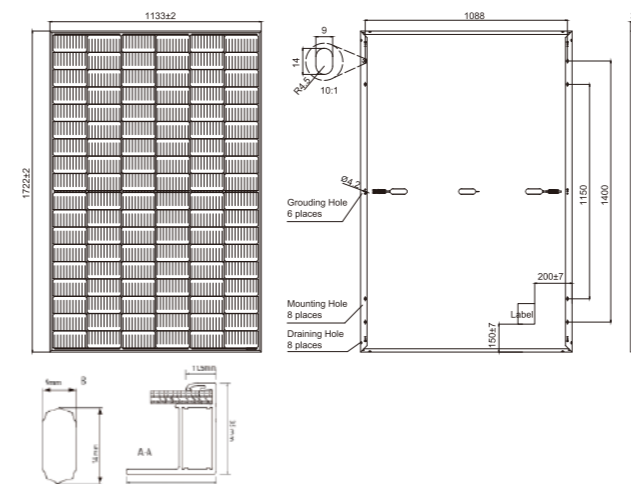
### Mechanical Specifications

Cell Type	MBB MONO 182×91mm
No. of Cells	108 (6×18)
Dimension	1722x1133x35mm
Weight	21.5kg
Glass	3.2mm, Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes
Output Cables	4mm <sup>2</sup> , Length 300mm or customized
Connector type	MC4 compatible

### Packaging Configurations

Per Pallet	31 pcs
Per 20' GP	186 pcs
Per 40' HQ Container	806 pcs

### Engineering Drawings



### Temperature Characteristics

NOCT Temperature	44°C ±2°C
Temperature Coefficient (Pmax)	-0.36%/°C
Temperature Coefficient (Voc)	-0.28%/°C
Temperature Coefficient (Isc)	0.05%/°C

### Maximum Ratings

Maximum system voltage (IEC)	1000 / 1500V DC
Snow / Wind	5400Pa / 2400Pa
Operating Temperature	-40°C ~ +85°C
Maximum series fuse rating	25A

### Curve & Temperature Dependence

