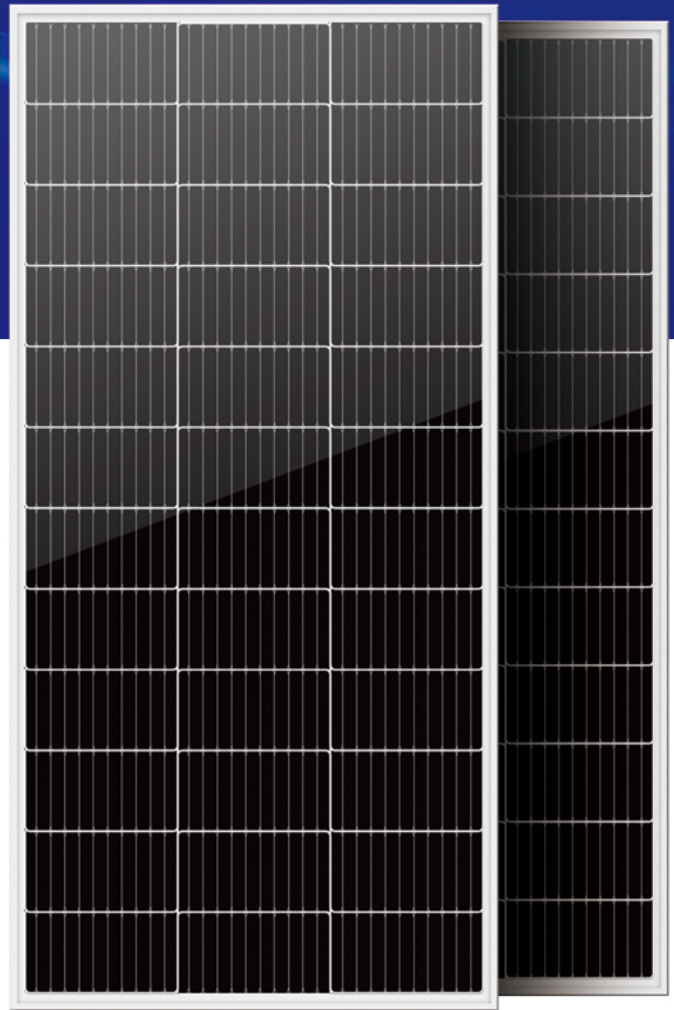


# High-efficiency 182 PERC Module

## 125W-140W



### ◆ KEY FEATURES



#### High Efficiency

By utilizing MBB half-cell technology to increase energy density, the conversion efficiency can reach 21.86%.



#### High Reliability

3 times IEC's new standard testing.



#### Anti-PID

By utilizing advanced cell production technology and rigorous materials control, the attenuation caused by PID can be minimized.



#### Low Risk of Micro-cracks

Lower the risk of micro-cracking and broken busbar due to MBB cells.



#### Easy Installation, Convenient Usage

Convenient installation, time and effort saving.

### ◆ PRODUCT CERTIFICATION

- Through various long-term reliability tests
- EL testing before and after lamination to ensure the reliability.
- Adhering to strict international standard management systems ISO 9001, ISO 14001 and OHSAS 18001
- Passing various rigorous environmental tests (salt spray, ammonia, and dust-proof testing such as IEC 61701, IEC 62716, DIN EN 60068-2-68)



# SP-M10/36H125W-140W

## ELECTRICAL CHARACTERISTICS

Module Type		SP-M10/36H-125W		SP-M10/36H-130W		SP-M10/36H-135W		SP-M10/36H-140W	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmp)	W	125	98	130	102	135	106	140	110
Maximum Power Voltage (Vmp)	V	19.21	18.65	19.41	18.85	19.61	19.05	19.81	19.25
Maximum Power Current (Imp)	A	6.51	5.26	6.70	5.42	6.89	5.57	7.07	5.72
Open Circuit Voltage (Voc)	V	22.80	22.22	23.00	22.42	23.20	22.62	23.40	22.82
Short Circuit Curren (Isc)	A	6.82	5.55	7.02	5.70	7.21	5.87	7.39	6.03
Module Efficiency ( $\eta_m$ )	%	18.50		19.24		19.98		20.72	

STC: AM=1.5, irradiance=1000W/m<sup>2</sup>, cell temperature=25°C  
 NOCT: irradiance=800W/m<sup>2</sup>, ambient temperature=20°C, wind speed=1m/s

## MECHANICAL PARAMETERS

Solar Cells	Monocrystalline(182cm)
No. of Cells	36[12x3]
Module Dimensions	1165*580*15mm
Weight	6.5kg
Glass	3.2mm,High-transparency,AR Coated Heat Strengthened Glass
Encapsulant Material	EVA/POE
Backsheet	White
Frame	Anodized Aluminum Alloy
J- Box	IP68
Output Cables	700/700mm(can be customized)
Connector	Compatible with MC4

## TEMPERATURE RATINGS

Nominal Operating Temperature	45°C(±2°C)
Pmax Temperature Coefficient	-0.350%/°C
Voc Temperature Coefficient	-0.275%/°C
Isc Temperature Coefficient	+0.045%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

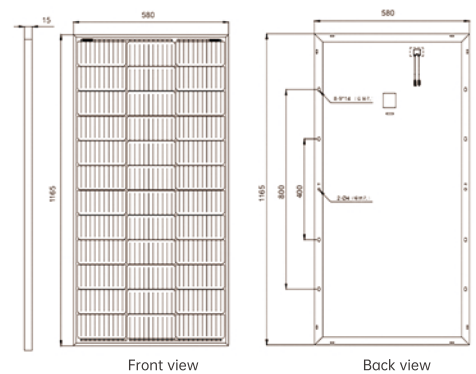
## OPERATING PARAMETERS

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1000v DC(IEC)
Maximum Series Fuse Rating	15A

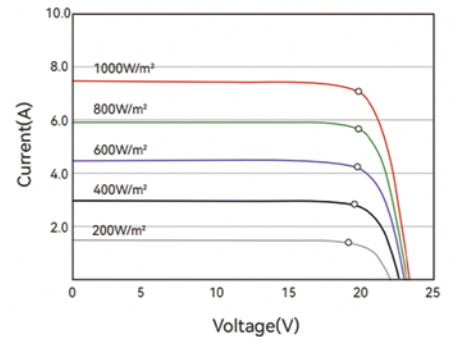
## PACKING CONFIGURATION

Pieces per Pallet	70
Pieces per 40'HQ	3640

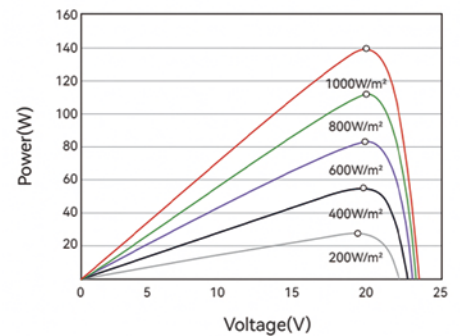
Dimensions (Unit: mm)



I-V characteristics at different irradiances



P-V Curves at different irradiances



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