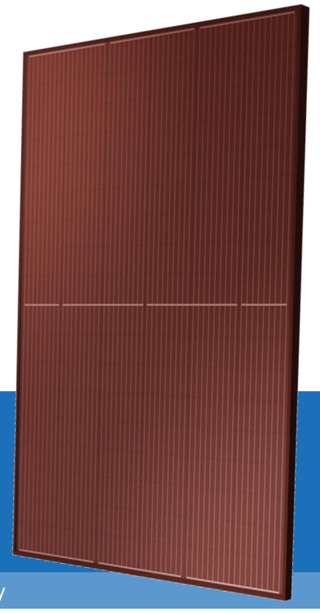
Soltech Energy

STxxxM10PH-108(FR)

0~+5W

360~380W

TOPCon Mono-crystalline Monofacial Red Module



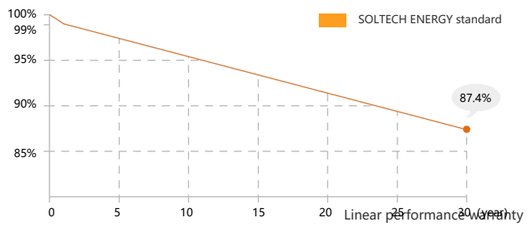
19.5%

High Module Conversion Efficiency

Key Features

- Outstanding performance in weak-light conditions
- Lower operating temperature
- Half-cell and MBB design
- Extended wind and snow load tests
- Withstanding harsh environment
- Use scenario customization

Quality Certification



12 years Materials and workmanship warranty

30 years

First year power degradation < 1%
Annual degradation < 0.4%

Product Guarantee

ISO 9001:2015 Quality management systems
ISO 14001:2015 Environment management systems
ISO 45001:2018 Occupational health and safety management systems
IEC 61215/IEC 61730/IEC 61701/IEC 62716
TUV/CE/CQC/MCS/BIS/SASO/SGS/INMETRO

Electrical Characteristics

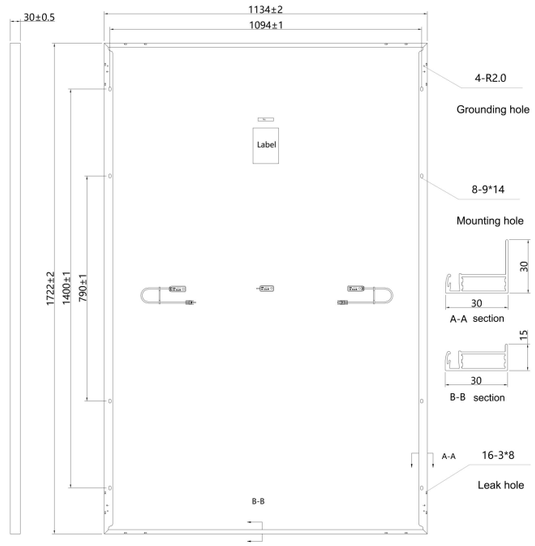
Module Type		ST360M10PH-108		ST365M10PH-108		ST370M10PH-108		ST375M10PH-108		ST380M10PH-108	
Working Conditions		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power at STC/NMOT(Pmax)	W	360	269.3	365	273.0	370	276.8	375	280.5	380	284.2
Optimum Operating Voltage(Vmp)	V	32.62	30.33	33.05	30.73	33.32	30.99	33.48	31.14	34.24	31.84
Optimum Operating Current (Imp)	A	11.04	8.88	11.04	8.88	11.11	8.93	11.20	9.01	11.10	8.93
Open Circuit Voltage(Voc)±3%	V	37.53	34.90	37.75	35.10	38.18	35.51	38.39	35.71	39.47	36.71
Short Circuit Current(Isc)±3%	A	12.01	9.77	12.10	9.84	12.13	9.87	12.22	9.94	12.05	9.80
Module Efficiency	%	18.4		18.7		18.9		19.2		19.5	
Maximum System Voltage	V	1500 (DC)									
Maximum Series Fuse Rating	A	25									
Operating Module Temperature	℃	-40~+85									

STC: Irradiance 1000W/m², cell temperature 25℃, atmospheric quality AM1.5 NMOT: Irradiance 800W/m², ambient temperature 20℃, AM1.5, wind speed 1m/s

Mechanical Characteristics

Solar Cell (No.of cells)	P-Mono 182x182 54PCS
Dimensions	1722x1134x30 mm
Weight	20.5 kg(±3%)
Front Glass	3.2mm Low-iron tempered glass/red
Frame	Anodized aluminum alloy/black
Junction Box	IP68 rated 3 bypass-diodes
Output Cables	4mm²/2x300mm or Customized length
Mechanical Load	5400Pa/2400Pa
Safety Rate	Class II (IEC)

Assembly Drawing (mm)



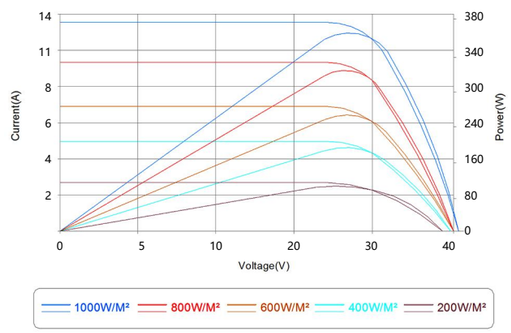
Temperature Characteristics

Temperature Coefficient of Pmax	%/℃	-0.35
Temperature Coefficient of Voc	%/℃	-0.30
Temperature Coefficient of Isc	%/℃	+0.05
Nominal Module Operating Temperature	℃	45±2

Packing Configuration

Container	20'GP		40'HQ
Pieces per pallet(PCS)	37		37
Pallets per container (Pallet)	10		26
Pieces per container(PCS)	370		962
Domestic Transport	MEAS: 1750x1140x1260 mm		
9.6m	37PCS/Pallet	20Pallet/Truck	740PCS/Truck
13.5m	37PCS/Pallet	30Pallet/Truck	1110PCS/Truck
17.5m	37PCS/Pallet	38Pallet/Truck	1460PCS/Truck

I-V Curves(370W)



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The Electrical performance parameters are neither just referred to one panel, nor are a part of the contract; They are only used as reference Product specifications are subject to change without notice, all technical changes Zhongyi New Energy reserves the right of final interpretation.