

# HC MONO

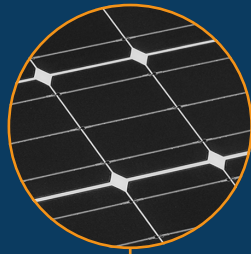
## 380 - 400 Watt

### Silver Frame



#### Key features

- ✓ Passed IEC 5400 Pa mechanical loading test.
- ✓ The modules can withstand high wind-pressure, snow loads and extreme temperatures.
- ✓ Our high performing modules have an industry low tolerance of 0±5%.
- ✓ Our solar cells offer high conversion efficiency to ensure the highest quality.
- ✓ Highest quality with our cells.



Highest quality with our cells.  
16MBB Top Con Technology

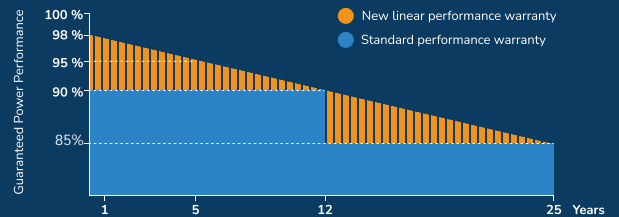


#### Quality and safety

- ✓ Industry leading power output warranty  
**15 years / 90%**  
**30 years/85.2%**
- ✓ 25-year warranty on materials & workmanship



#### Premium performance warranty



#### Applications



On-grid residential roof-tops



On-grid commercial-industrial roof-tops

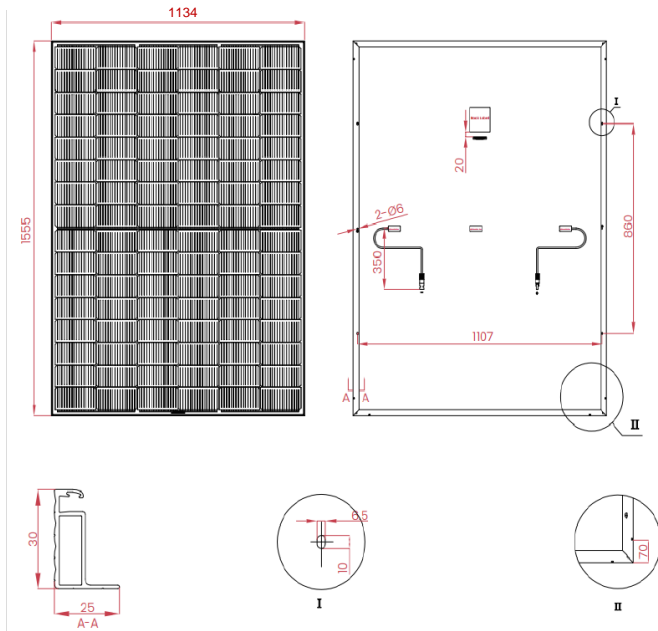


Solar power plants

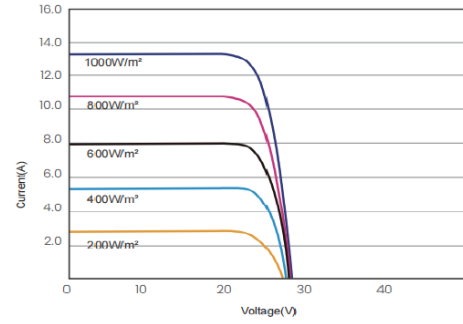


Off-grid systems

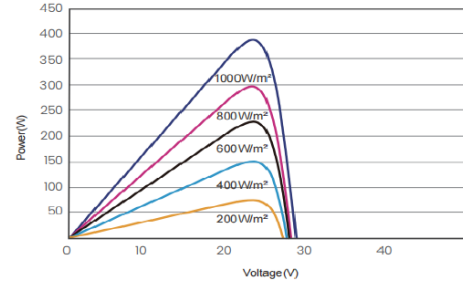
## Engineering drawings



## Electrical performance & temperature dependence



I-V CURVES OF PV MODULE(380W)



P-V CURVES OF PV MODULE(380W)

## Electrical characteristics

Module Type	SNG380M-96	SNG385M-96	SNG390M-96	SNG395M-96	SNG400M-96
<b>TESTING CONDITION<sup>(1)</sup></b>	<b>STC<sup>(2)</sup>/NMOT<sup>(3)</sup></b>	<b>STC<sup>(2)</sup>/NMOT<sup>(3)</sup></b>	<b>STC<sup>(2)</sup>/NMOT<sup>(3)</sup></b>	<b>STC<sup>(2)</sup>/NMOT<sup>(3)</sup></b>	<b>STC<sup>(2)</sup>/NMOT<sup>(3)</sup></b>
Maximum Power (Pmax)	380Wp/287.77Wp	385Wp/291.70Wp	390Wp/295.44Wp	395Wp/299.03Wp	400Wp/302.55Wp
Maximum Power Voltage (Vmp)	28.69V/26.92V	28.88V/27.11A	29.07V/27.28V	29.26V/27.46V	29.44V/27.63V
Maximum Power Current (Imp)	13.26A/10.69A	13.34A/10.76A	13.43A/10.83A	13.50A/10.89A	13.59A/10.95A
Open-circuit Voltage (Voc)	34.72V/33.17V	34.95V/33.38V	35.18V/33.61V	35.41V/33.82V	35.63V/34.04V
Short-circuit Current (Isc)	14.01A/11.31A	14.09A/11.37A	14.18A/11.45A	14.27A/11.52A	14.36A/11.59A
Module Efficiency (%)	21.35%	21.63%	21.91%	22.19%	22.47%
Operating Temperature 0C		-40 ~ +85			
Maximum system voltage		1500VDC			
Maximum series fuse rating		30A			
Power tolerance		±5%			
Temperature coefficients of Pmax		-0.29%/			
Temperature coefficients of Voc		-0.25%/			
Temperature coefficients of Isc		0.045%/			
Nominal operating cell temperature (NOCT)		45±2			

## Mechanical data

Cell type	Top Con Technology (182x91mm)
No. of cells	96 (2x48)
Dimensions	1555x1134x30mm
Weight	17.9kg
Front Glass	3.2 mm anti-reflection
Frame	Anodized Aluminium Alloy Silver Frame
Junction Box	IP68 Rated
Output Cables	TUV: 1x4.0mm <sup>2</sup> UL 12AWG Length: 1100mm or customized
Connectors	Copper, Silver Plated, MC 4

## Packaging configuration

Dimensions	30mm
No. of pieces per pallet	36
Total number of pallets	28
Module quantity per 40' container	1008

(1) Measurement Tolerances: Pmax (+/- 5%), Isc & Voc (+/- 5%) - Power Classification 0/+5%

(2) STC (Standard Testing Condition): Irradiance 1000w/m<sup>2</sup>, Cell Temperature 25°C, AM 1.5

(3) NMOT (Nominal Operating Module Temperature): Irradiance 800/m<sup>2</sup>, NMOT, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

STC/NMOT



Irradiance 1000W/m<sup>2</sup> / 800W/m<sup>2</sup>



Module Temperature 25°C



AM = 1.5