

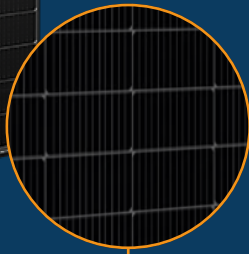
HC MONO

540 - 555 Watt Total Black



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

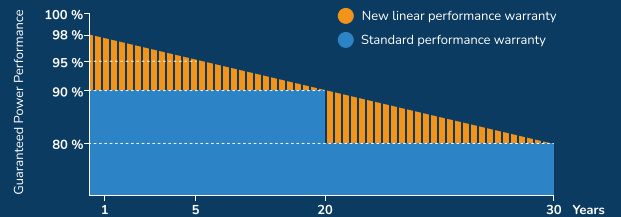


Quality and safety

- ✔ Industry leading power output warranty
20 years / 90%
30 years / 80%
- ✔ 30-year warranty on materials & workmanship
- ✔ Fire test: Class 1



Premium performance warranty



Applications



On-grid residential roof-tops



On-grid commercial-industrial roof-tops

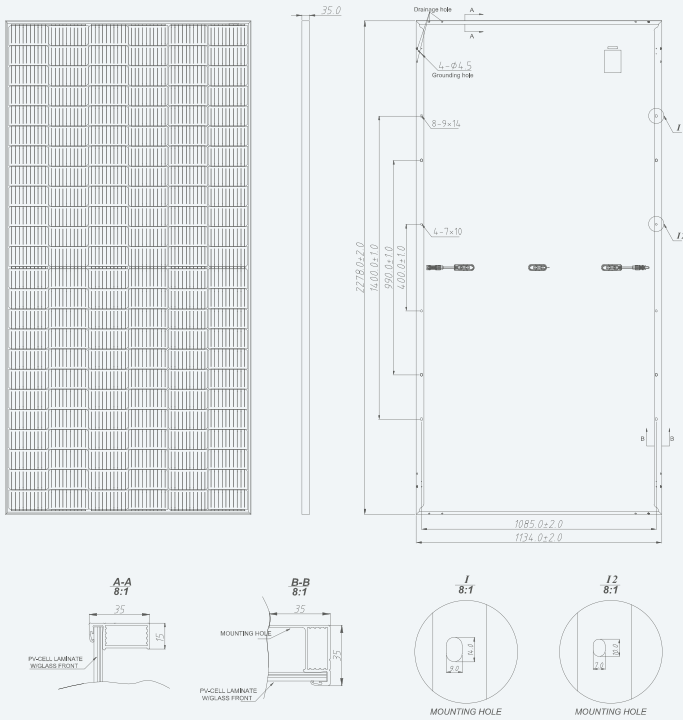


Solar power plants



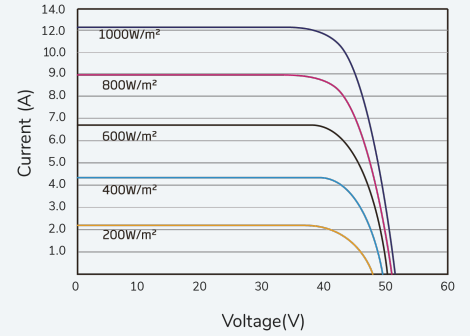
Off-grid systems

Engineering drawings

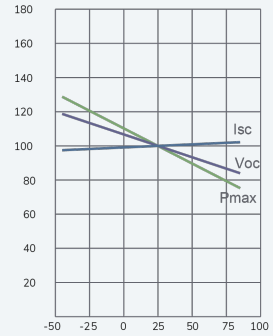


Electrical performance & temperature dependence

Current-Voltage & Power-Voltage Curves (540W)



Temperature Dependence of Isc, Voc, Pmax



Electrical characteristics

Module Type	SNG540M-144	SNG545M-144	SNG550M-144	SNG555M-144
TESTING CONDITION⁽¹⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾
Maximum Power at STC (Pmax)	540Wp/409Wp	545Wp/413Wp	550Wp/417Wp	555Wp/431Wp
Maximum Power Voltage (Vmp)	41.20V/39.44V	41.40V/39.67V	41.60V/39.90V	41.80V/40.14V
Maximum Power Current (Imp)	13.11A/10.37A	13.17A/10.41A	13.23A/10.54A	13.30A/10.49A
Open-circuit Voltage (Voc)	49.40V/47.63V	49.60V/47.87V	49.80V/48.10V	50.00V/48.24V
Short-circuit Current (Isc)	13.187A/10.99A	13.93A/11.03A	13.99A/11.07A	14.05A /11.10A
Module Efficiency (%)	20.89%	21.09%	21.28%	21.48%
Operating Temperature OC	-40°C ± +85°C			
Maximum system voltage	1500V			
Maximum series fuse rating	25A			
Power tolerance	0±5%			
Temperature coefficients of Pmax	-0.35%/°C			
Temperature coefficients of Voc	-0.28%/°C			
Temperature coefficients of Isc	0.048%/°C			
Nominal operating cell temperature (NOCT)	45±2°C			

Mechanical data

Cell type	Topcon Mono-crystalline (182mmx91mm)
No. of cells	144 (2x72)
Dimensions	2279x1134x35mm
Weight	35mm : 28.3 kg
Front Glass	3.2 anti-reflective
Frame	Anodized Aluminium Alloy Total Black
Junction Box	IP68 Rated
Output Cables	TUV: 1x4.0mm² UL 12AWG, Length: 1400mm or customized length
Connectors	Copper, Silver Plated, MC 4

Packaging configuration

Dimensions	35mm
No. of pieces per pallet	20
Total number of pallets	31
Module quantity per 40' container	620

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

(2) STC (Standard Testing Condition): Irradiance 1000w/m², Cell Temperature 25°C, AM 1.5

(3) NMOT (Nominal Operating Module Temperature): Irradiance 800/m², NMOT, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

STC/NMOT



Irradiance 1000W/m² / 800W/m²



Module Temperature 25°C



AM = 1.5