

BC MONO

**580 - 600 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.

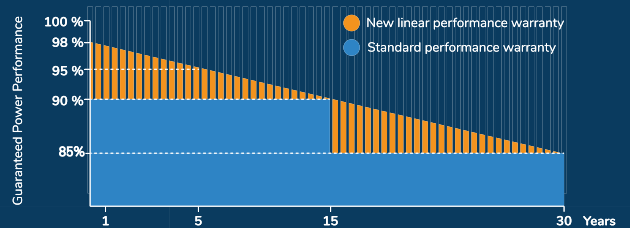


Quality and safety

- ✔ Industry leading power output warranty
15 years / 90%
- 30 years/85.2%
- ✔ 25-year warranty on materials & workmanship
- ✔ Fire test: Class 1



Premium performance warranty



Applications



On-grid residential roof-tops



On-grid commercial-industrial roof-tops

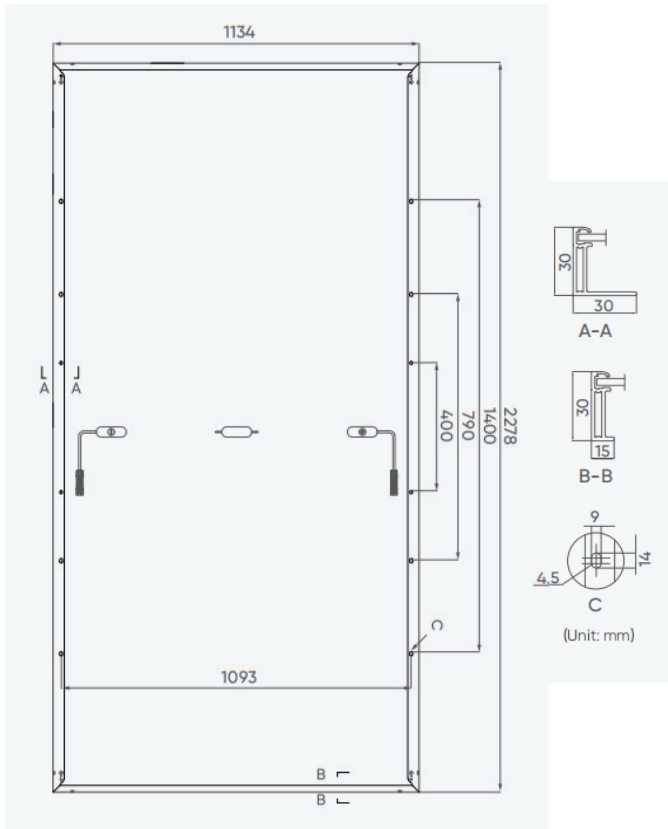


Solar power plants

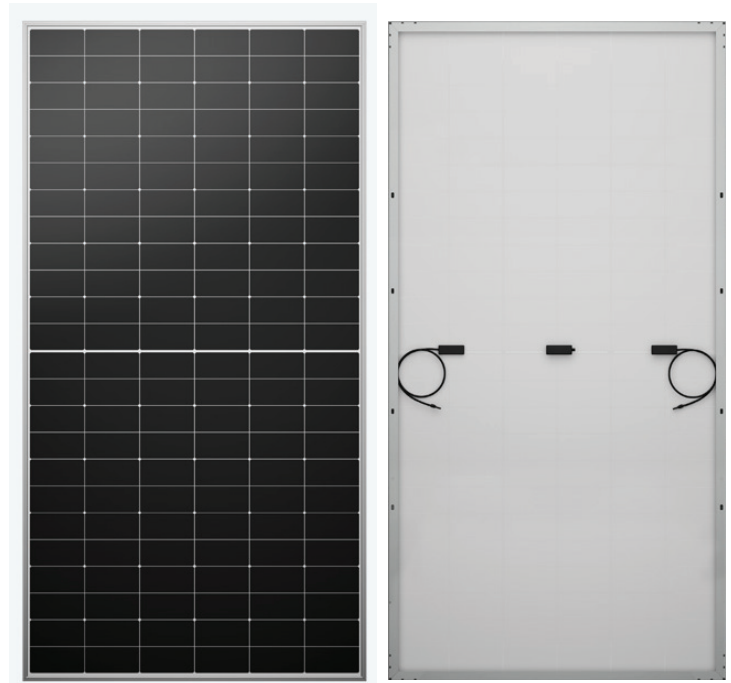


Off-grid systems

Engineering drawings



Product image



Electrical characteristics

Module Type	SNG580M-144	SNG585M-144	SNG590M-144	SNG595M-144	SNG600M-144
TESTING CONDITION⁽¹⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾
Maximum Power at STC (P _{max})	580Wp/439Wp	585Wp /443Wp	590Wp/447Wp	595Wp/451Wp	600Wp/455Wp
Maximum Power Voltage (V _{mp})	43.22V/40.57V	43.41V/40.75V	43.60V/40.92V	43.79V/41.10V	43.98V/41.28V
Maximum Power Current (I _{mp})	13.42A/10.83A	13.48A/10.88A	13.54A/10.93A	13.59A/10.97A	13.65A/11.02A
Open-circuit Voltage (V _{oc})	52.30V/49.96V	52.54V/50.19V	52.77V/50.41V	53.00V/50.63V	53.23V/50.85A
Short-circuit Current (I _{sc})	14.18A/11.45A	14.24A/11.50A	14.30A/11.55A	14.36A/11.59A	14.42A/11.64A
Module Efficiency (%)	22.4%	22.6%	22.8%	23.0%	23.2%
Operating Temperature OC	-40°C ~ +85°C				
Maximum system voltage	1500V DC				
Maximum series fuse rating	25A				
Power tolerance	±5%				
Temperature coefficients of P _{max}	-0.29%/°C				
Temperature coefficients of V _{oc}	-0.25%/°C				
Temperature coefficients of I _{sc}	0.045%/°C				
Nominal operating cell temperature (NOCT)	45±2°C				

(1) Measurement Tolerances: P_{max} (+/- 5%), I_{sc} & V_{oc} (+/- 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

Mechanical data

Cell type	BC Technology (182x91mm)
No. of cells	144 (6x24)
Dimensions	2278x1134x30mm
Weight	27.2 kg
Front glass	BC Technology
Frame	Anodized Aluminium Alloy Silver Frame
Junction Box	IP68 Rated
Output Cables	TUV: 1x4.0mm ² / UL 12AWG Length: 400/1400mm or customized length
Connectors	Copper, Silver Plated, MC 4

Packaging configuration

Dimensions	30mm
No. of pieces per pallet	36
Total number of pallets	20
Module quantity per 40' container	720

STC/NMOT



Irradiance 1000W/m² / 800W/m²



Module Temperature 25°C



AM = 1.5