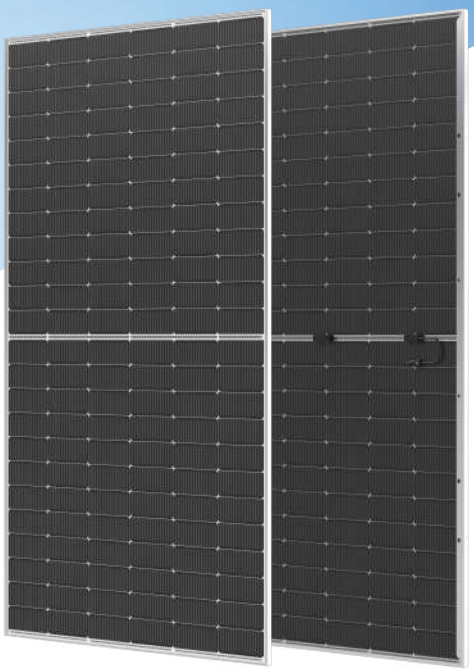
SJ-N16

N-type TOPCon Bifacial Dual Glass Module

SJ-N16/144HG

570W ~ 595W



High Power Generation

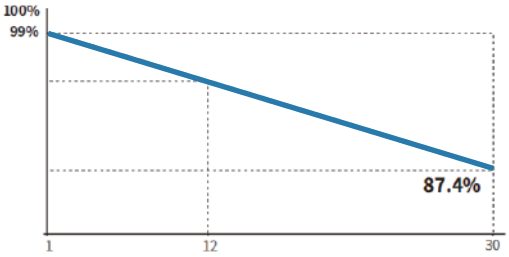
- Module power up to 595W
  Module efficiency up to 23%
- Bifaciality up to 85%
  More back side power generation
- Excellent anti-LeTID & anti-PID performance
  Lower power degradation, higher energy yield
- Lower temperature coefficient: -0.29%/℃
  Better performance under extreme weather condition
- Lower LCOE & system cost

30 years power warranty

12 years product warranty

High Reliability

- Safety protection level Class Ⅱ
- Minimized micro-cracks impacts
- Better mechanical loading performance
  +5400Pa/-2400Pa



Less than 1% degradation in the first year
Annual degradation ＜0.4% over 30 years

ISO9001： 2015 Quality management system
ISO18001 Environmental management system
ISO45001 International standards for occupational health & safety
IEC 61215: 2021 / IEC 61730: 2023

SJ-N16/144HG 570W ~ 595W

Mechanical Characteristics

Cell Type	N-type Mono-crystalline
No. of Cells	144
Dimensions	2278mm×1134mm×30mm
Weight	31kg
Front Glass	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
Connector Type	MC4 compatible
Output Cables	4mm², +400/-200mm or Customized Length

Packaging Configuration

Pallet Dimentions	2335*1140*1250mm
Packing Detail (Two pallets - One stack)	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40' HQ Container

Specifications (STC)

Maximum Power (Pmax-W)	570	575	580	585	590	595
Power Tolerance	0~+5					
Maximum Power Voltage (Vmp-V)	42.38	42.50	42.63	42.75	42.88	43.00
Maximum Power Current (Imp-A)	13.45	13.53	13.61	13.69	13.76	13.84
Open-circuit Voltage (Voc-V)	50.85	51.00	51.15	51.30	51.45	51.60
Short-circuit Current (Isc-A)	14.10	14.20	14.30	14.40	14.50	14.60
Module Efficiency (%)	22.10	22.30	22.50	22.60	22.80	23.00

STC:AM=1.5, irradiance 1000W/m², module temperature 25℃

Specifications (NMOT)

Maximum Power (Pmax-W)	428	432	436	440	443	447
Maximum Power Voltage (Vmp-V)	40.26	40.42	40.59	40.73	40.89	41.06
MaximumPower Current (Imp-A)	10.65	10.70	10.75	10.80	10.85	10.90
Open-circuit Voltage (Voc-V)	48.35	48.54	48.73	48.92	49.11	49.30
Short-circuit Current (Isc-A)	11.39	11.46	11.53	11.59	11.66	11.73

NMOT: irradiance 800W/m², ambient temperature 20℃, wind speed 1m/s, AM 1.5

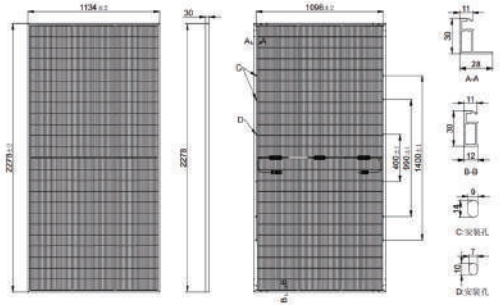
Temperature Characteristics

Nominal Module Operating Temperature	42±2℃
Temperature Coefficient of Pmax	-0.29%/℃
Temperature Coefficient of Voc	-0.25%/℃
Temperature Coefficient of Isc	0.045%/℃

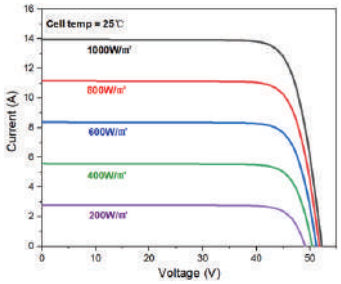
Application Conditions

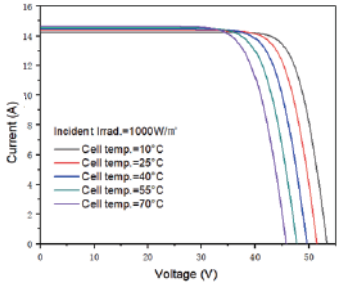
Maximum System Voltage	DC1500V(IEC)
Maximum Series Fuse Rating	30A
Mechanical Loading	5400Pa/2400Pa
Hail impact experiment	Φ25mm hail, From 1m at speed of 23m/s
Operating Temperature	-40℃ ~ +85℃
Protection Class	Class II
Bifaciality	80±5%

Engineering Drawings



I-V Curves





Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation.
The specifications in this datasheet are subject to change without notice.