



SJ-N16

N-type TOPCon Bifacial Dual Glass Module

SJ-N16/108HG

425W ~ 450W



High Power Generation



Module power up to 450W
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: $-0.29\%/^{\circ}\text{C}$
Better performance under extreme weather condition



Lower LCOE & system cost
All black aesthetic design



30 years power warranty



12 years product warranty

High Reliability



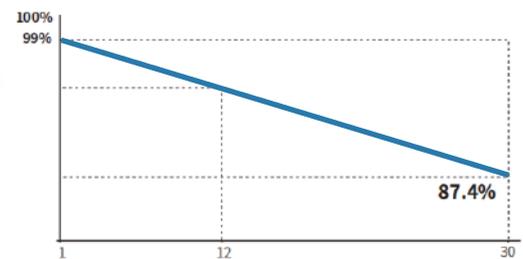
Safety protection level Class II



Minimized micro-cracks impacts



Better mechanical loading performance
 $+5400\text{Pa}/-2400\text{Pa}$



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-N16/108HG 425W ~ 450W

Mechanical Characteristics

Cell Type	N-type Mono-crystalline
No. of Cells	108
Dimensions	1722mm×1134mm×30mm
Weight	22.5kg
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	4mm ² , +400/-200mm or Customized Length

Packaging Configuration

Pallet Dimensions	1750*1140*1250mm
Packing Detail (Two pallets - One stack)	36 pcs/pallets, 72 pcs/stack, 936 pcs/ 40' HQ Container

Specifications (STC)

Maximum Power (P _{max} -W)	425	430	435	440	445	450
Power Tolerance	0~+5					
Maximum Power Voltage (V _{mp} -V)	32.10	32.27	32.44	32.61	32.77	32.93
Maximum Power Current (I _{mp} -A)	13.24	13.33	13.41	13.49	13.58	13.67
Open-circuit Voltage (V _{oc} -V)	38.20	38.40	38.60	38.80	39.00	39.20
Short-circuit Current (I _{sc} -A)	13.98	14.09	14.19	14.30	14.41	14.52
Module Efficiency (%)	21.80	22.00	22.30	22.50	22.80	23.00

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

Specifications (NMOT)

Maximum Power (P _{max} -W)	319	323	327	330	334	338
Maximum Power Voltage (V _{mp} -V)	30.21	30.37	30.53	30.70	30.84	31.01
Maximum Power Current (I _{mp} -A)	10.58	10.65	10.71	10.78	10.85	10.92
Open-circuit Voltage (V _{oc} -V)	36.29	36.48	36.67	36.85	37.04	37.23
Short-circuit Current (I _{sc} -A)	11.28	11.37	11.46	11.54	11.63	11.72

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

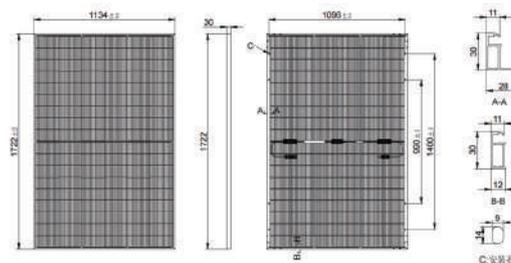
Temperature Characteristics

Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of P _{max}	-0.29%/°C
Temperature Coefficient of V _{oc}	-0.25%/°C
Temperature Coefficient of I _{sc}	0.045%/°C

Application Conditions

Maximum System Voltage	DC1500V(IEC)
Maximum Series Fuse Rating	25A
Mechanical Loading	5400Pa/2400Pa
Hail impact experiment	φ25mm hail, From 1m at speed of 23m/s
Operating Temperature	-40°C ~ +85°C
Protection Class	Class II
Bifaciality	80±5%

Engineering Drawings



I-V Curves

