

MONO-FACIAL MODULE

AL9-685~700N-E1

N-Type /Positive power tolerance of 0~+3%/Max module efficiency 22.53%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
 - Non destructive cutting · MBB half-cut
- Excellent power generation performance
 - Excellent IAM and Weak light response · Low temperature ratings
 - 0.4% linear Power decline
- High module quality ensures long-term reliability
 - Strict selected material · Advanced technology · Leading standard
- Ultra-hydrophilic self-cleaning coating techniques
- Enhanced Mechanical Load
 - Mechanical performance up to 5400pa positive load and 2400pa negative load

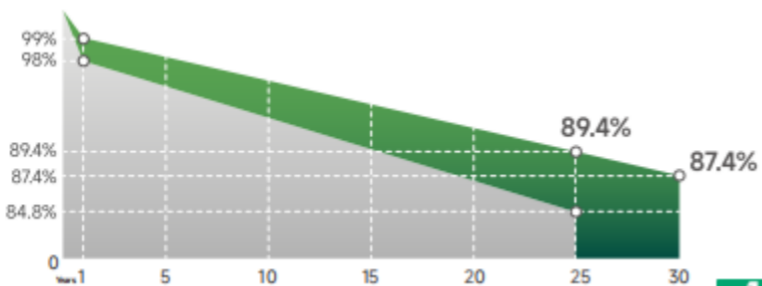
Complete System and IEC Product Certification

IEC 61215(2016), IEC 61730(2016) ISO9001:2015:Quality Management System ISO14001:2015:Environment Management System ISO45001:2018:Occupational Health and Safety Management System



12-year Material & Workmanship

30-year Linear Power Output

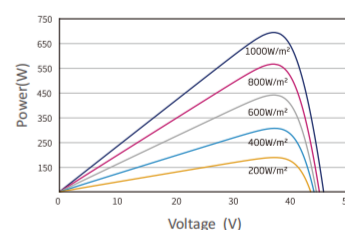
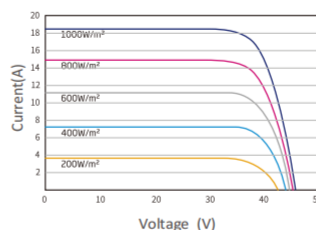
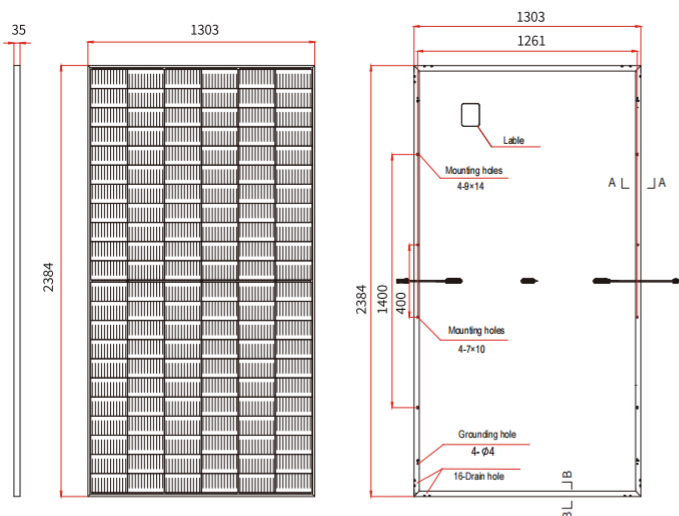


30-Year excess linear power output warranty



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Drawing Only for Reference

Electrical Characteristics STC	AL9-685N-E1	AL9-690N-E1	AL9-695N-E1	AL9-700N-E1
Maximum Power (Pmax)	685W	690W	695W	700W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	22.05%	22.21%	22.37%	22.53%
Maximum Power Current (Imp)	17.86A	17.89A	17.93A	17.96A
Maximum Power Voltage (Vmp)	38.36V	38.56V	38.77V	38.97V
Short Circuit Current (Isc)	18.61A	18.66A	18.72A	18.77A
Open Circuit Voltage (Voc)	47.01V	47.22V	47.42V	47.63V

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Electrical Characteristics NOCT	AL9-685N-E1	AL9-690N-E1	AL9-695N-E1	AL9-700N-E1
Maximum Power (Pmax)	518W	522W	525W	529W
Maximum Power Current (Imp)	14.52A	14.55A	14.57A	14.60A
Maximum Power Voltage (Vmp)	35.68V	35.86V	36.05V	36.24V
Short Circuit Current (Isc)	15.30A	15.35A	15.39A	15.44A
Open Circuit Voltage (Voc)	43.72V	43.91V	44.10V	44.29V

NOCT Irradiance of 800W/m² AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

Mechanical Characteristics

Cell Type	MonoN-Type, 210×210(±1)mm, 132(6×22) Half-Cut cells
Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated, With Bypass Diodes
Dimension	2384x1303x35mm
Output Cable	4 mm ² (EU), 300 mm, length can be customized
Weight	33.5kg
Installation Hole Location	See Drawing Above

Packing Information

Container	40' HQ
Pallets per Container	18
Pieces per Container	558

Characteristics

Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.046%/°C
Temperature Coefficient of Pmax	-0.31%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C
Fire Performance	IEC Class C

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Maximum Ratings

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	35A

