

ALX-305M



Company Profile

Alex Solar manufactures and produces crystalline silicon solar cells and solar modules with production facilities based in Shanghai.

We have a vertically integrated business model beginning with wafers, cells and modules and our current production capacity is 600 MW.

Quality and Warranty

- 10 year limited warranty on material and workmanship
- 12 year warranty on power output to not fall below 90%
- 25 year warranty on power output to not fall below 80%
- ISO 9001:2008 (Quality Management System) certified factory
- Certified by UL, TUV, CE, RINA, MCS and CEC
- Products meet the IEC61215, IEC61730, and UL1703 standards
- Insured by US Chubb Insurance and Alltrust Insurance Brokers & Risk Consultants Co., Ltd.

Characteristics

- High cell efficiency ensures high power performance even at low irradiation
- High-performing modules have an industry low tolerance of 3%
- Module stability and reliability due to high-quality raw materials
- Reliable schottky bypass diode minimizes power drop by shade
- All weather-resistant junction box and crosslink cable
- Withstands high wind force up to 2400Pa and heavy snowloads of up to 5400Pa



© copyright 2014 Alex Solar (updated 4/2014)

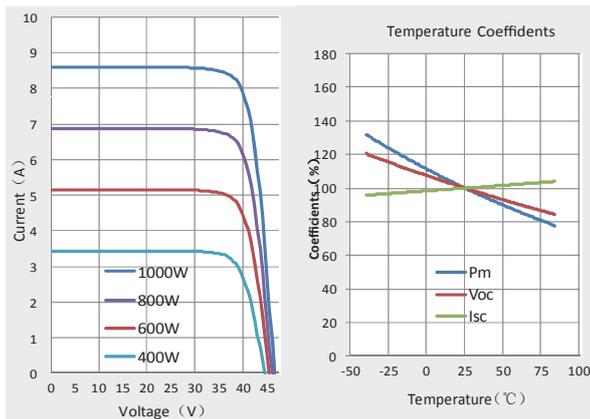




Typical Electrical Characteristics

Type	ALM-300D-24	ALM-305D-24	ALM-310D-24	ALM-315D-24	ALM-320D-24
Maximum Power (Pmax)	300W	305W	310W	315W	320W
Power Tolerance	3%	3%	3%	3%	3%
Open Circuit Voltage(Voc)	45.4V	45.7V	46.0V	46.1V	46.3V
Short Circuit Current (Isc)	8.65A	8.81A	8.82A	8.83A	8.84A
Maximum Power Voltage (Vmp)	37.5V	37.8V	38.2V	38.6V	38.9V
Maximum Power Current(Imp)	8.00A	8.07A	8.12A	8.16A	8.23A
Cell Efficiency	17.8%	18.1%	18.4%	18.7%	19.0%
Module Efficiency	15.4%	15.7%	15.9%	16.2%	16.4%
Max. System Voltage	1000 VDC				
Cell Size and Series	6" (156mm)*6" (156mm) mono 72pcs(6*12)				
Bypass Diodes	3pcs 15A				
Temperature Coefficients of Pmax	-0.446%/°C				
Temperature Coefficients of Voc	-0.322%/°C				
Temperature Coefficients of Isc	+0.060%/°C				
NOCT- Nominal Operating Cell Temperature	45 °C (±2)				
Standard Test Condition	Irradiance level 1,000W/m ² , Spectrum AM 1.5, and Cell Temperature 25 °C				

Typical Electrical Characteristics



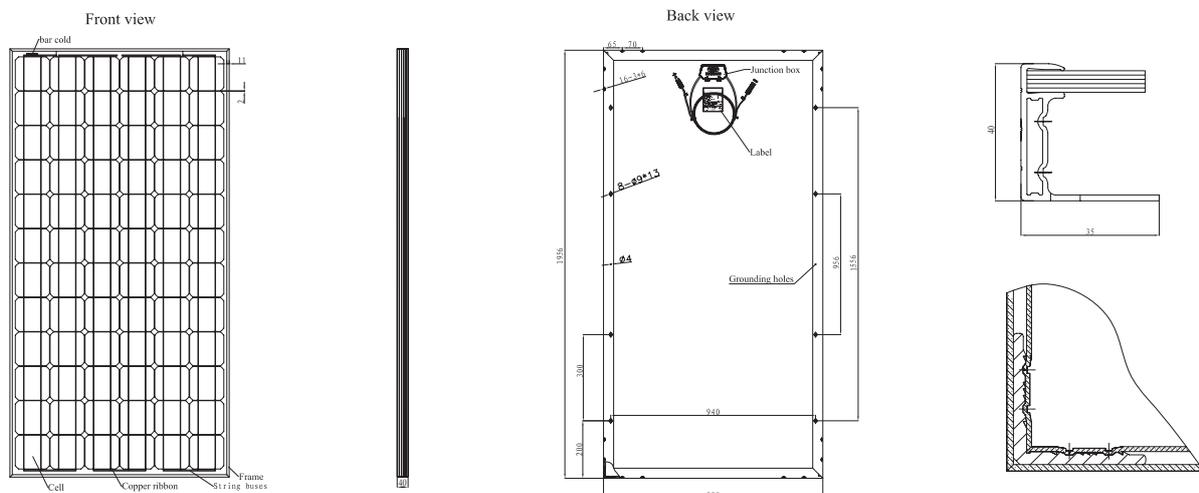
Mechanical Characteristics

Surface Maximum Load Capacity	2,400Pa
Allowable Hail Load	227g steel ball fall down from 1m height
Glass Type	High Transmits, Low Iron, 3.2mm Tempered Glass
Frame	Aluminium-alloy
Dimensions (mm)	1956mm(L)×990mm(W)×40mm(H)
Weight(kg)	23kgs
Dielectric Insulation Voltage	3000VDC max
Operating Temperature	-40 ~ +85 °C
Storage Temperature	-40 ~ +85 °C
Cable Length	1000mm

Package Information

Carton	26pcs/ctn & 33pcs/ctn
Pallet	52pcs/plt & 66pcs/plt
40"HQ	11plts (586pcs)

Dimensions



Specifications are subject to change without further notification

