

ALM-190D-24



Company Profile

Alex Solar's vertically integrated business model begins with wafers, cells, and modules and has a current production capacity of 600 MW. We also produce, in-house, the junction box and frame and develop customized projects to meet your every need.

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
- CE, IEC 61215, IEC61730, RINA, MSC, CEC, UL certified products
- Insured by Shanghai Alltrust Risk Consultants & Insurance Brokers Co., Ltd
- Insured by US Chubb Insurance

Characteristics

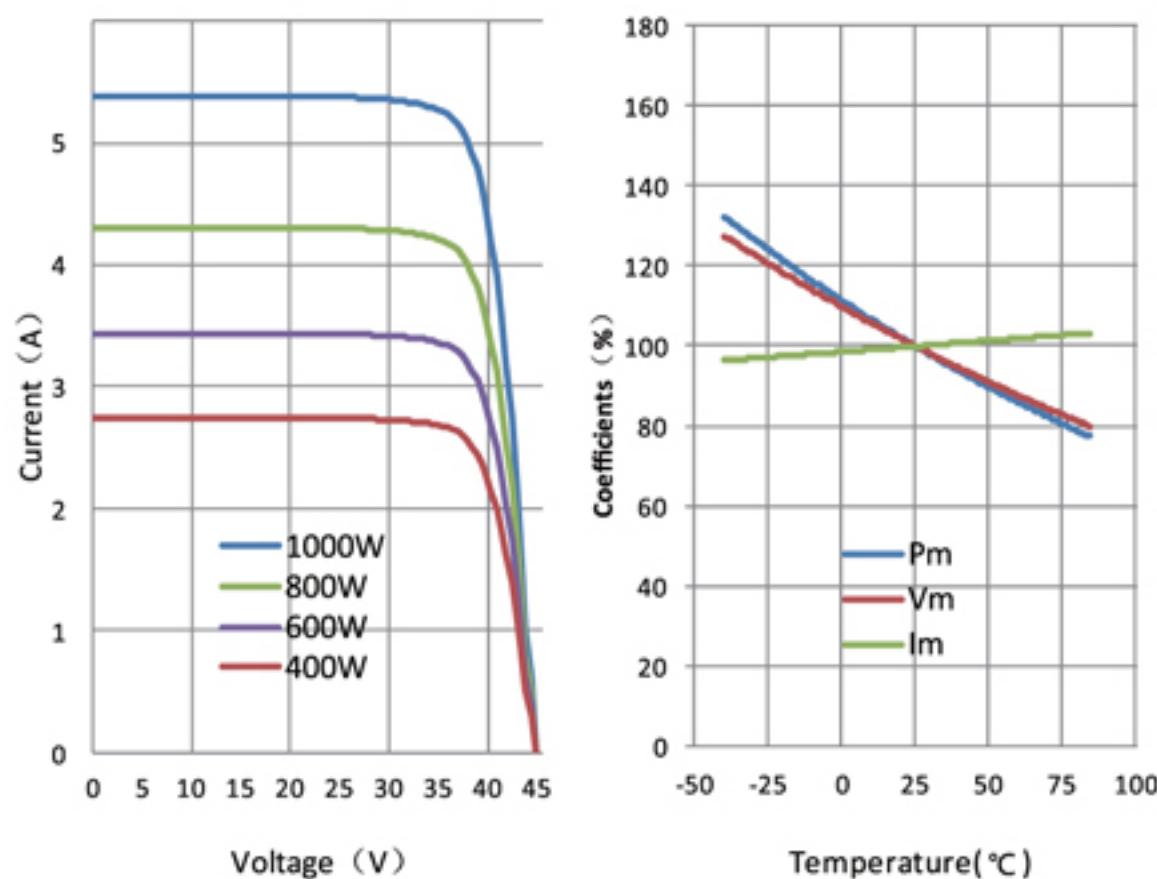
- High cell efficiency to ensure stability and reliability
- High-performing modules have an industry low tolerance of 3%
- Reliable schottky bypass diode minimizes performance losses caused by shadowing
- All weather-resistant Junction Box and crosslink cable
- Withstands high wind force up to 2400 Pa, heavy snowloads of up to 5400 Pa and extreme
- Bonded warehouse and local technical support team



Typical Electrical Characteristics

Type	ALM-185D-24	ALM-187D-24	ALM-190D-24	ALM-195D-24	ALM-200D-24	ALM-205D-24
Maximum power (Pmax)	185W	187W	190W	195W	200W	205W
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%
Open Circuit Voltage(Voc)	44.50V	44.60V	44.70V	44.90V	45.1V	45.3V
Short Circuit Current (Isc)	5.58A	5.64A	5.70A	5.82A	5.9A	5.96A
Maximum Power Voltage (Vmp)	35.60V	35.60V	36.00V	36.40V	36.8V	37.2V
Maximum Power Current(Imp)	5.2A	5.25A	5.29A	5.38A	5.43A	5.51A
Cell Efficiency	17.29%	17.3%	17.57%	18.03%	18.5%	18.96%
Module Efficiency	14.49%	14.65%	14.88%	15.27%	15.67%	16.06%
Max. System Voltage	1000VDC					
Cell Size and Series	5" (125mm)*5" (125mm) mono 72pcs(6*12)					
Bypass Diodes	3pcs 9A					
Temperature Coefficients of Pmax	-0.431%/°C					
Temperature Coefficients of Voc	-0.375%/°C					
Temperature Coefficients of Isc	+0.055%/°C					
NOTC- Nominal Operating Cell Temperature	47°C (±2)					
STC 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 transmit, low iron, 3.2mm tempered glass
Frame	Aluminium-alloy
Dimensions (mm)	1580mm(L)×808mm(W)×40mm(H)
Weight(kg)	16 kgs
Dielectric Insulation Voltage	3000VDC max
Operating Temperature	-40 ~ +85 °C
Storage Temperature	-40 ~ +85 °C
Cable Length	900mm

Package Information

Carton	24pcs/ctn & 2pcs/ctn
Pallet	52pcs/plt(24pcs*2ctn+2pcs*2ctn)
20"GP	6plts (312pcs)
40"GP	14plts (728pcs)

Dimensions

