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Solar Panel Guide Specification Data Sheet

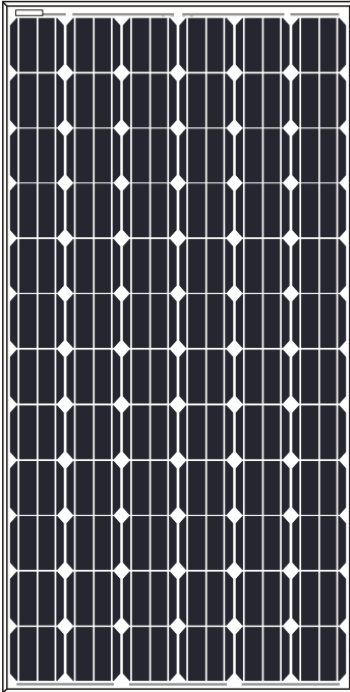
Nemy, Inc.

JBM-72

JB305M-72

Also available on the web at
EnergyPal.com/nemy-inc-solar-panels/jb305m-72

JB Series Monocrystalline 72-cell Solar Module



Key Features

1. Strong aluminum frame module can bear Mechanical loads up to 2400Pa(50lb/ft²)※.
2. 100% electroluminescence inspection.
3. Certificates and standards: UL 1703, conformity to CE.
4. Guarantee 25 years for at least 80.2% of Pmax.



Electrical Characteristics STC

	JB305M-72	JB310M-72	JB315M-72	JB320M-72
Maximum Power (Pmax)	305W	310W	315W	320W
Maximum Power Current (Imp)	8.31A	8.33A	8.38A	8.46A
Maximum Power Voltage (Vmp)	36.7V	37.2V	37.6V	37.8V
Short Circuit Current (Isc)	8.98A	9.00A	9.05A	9.08A
Open Circuit Voltage (Voc)	45.5V	46.1V	46.1V	46.3V
Module Efficiency	15.7%	16.0%	16.2%	16.5%
Power Tolerance	±3%	±3%	±3%	±3%

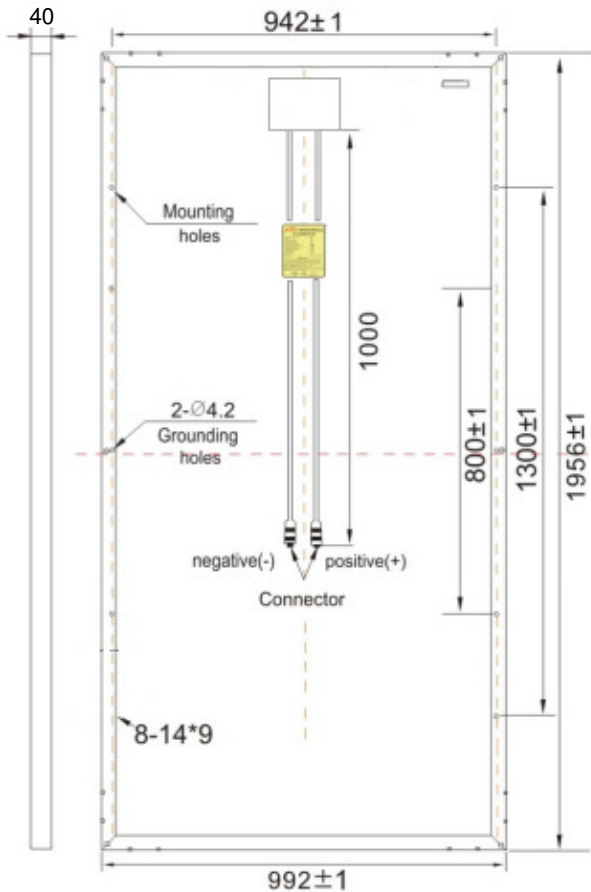
Values at Standard Test Conditions (AM1.5, Irradiance 1000W/m², 25 °C,)

Electrical Characteristics NOCT

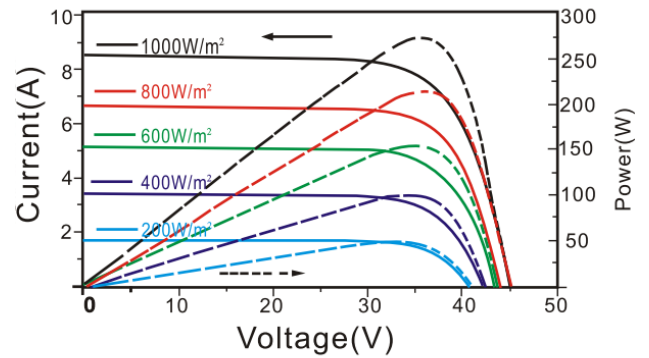
	JB305M-72	JB310M-72	JB315M-72	JB320M-72
Maximum Power (Pmax)	226W	230W	233W	237W
Maximum Power Current (Imp)	6.38A	6.47A	6.49A	6.55A
Maximum Power Voltage (Vmp)	35.4V	35.5V	35.9V	36.1V
Short Circuit Current (Isc)	7.02A	7.07A	7.13A	7.15A
Open Circuit Voltage (Voc)	43.1V	43.6V	43.6V	43.6V

Values at Normal Operating Cell Temperature (AM1.5, Irradiance 800W/m², 20 °C, Wind speed 1m/s)

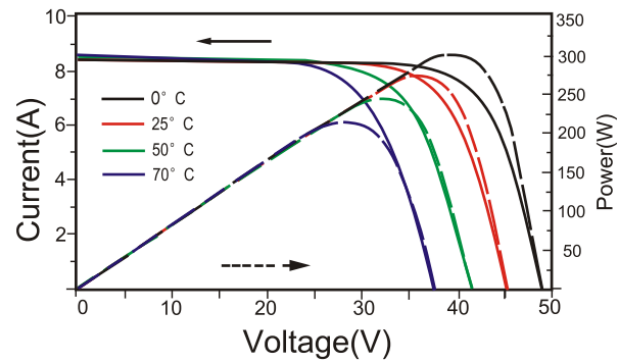
※Confirmed 2400Pa(50lb/ft²) load on our internal test. Certified 30lb/ft² (1436Pa) load on ETL certification.



I-V Curves at different Irradiances
Test temperature:25°C



Irradiance:AM1.5,1000W/m²



Mechanical Characteristics

Solar Cell	Monocrystalline 156x156mm, 72(6x12) pcs in series
Glass	High transparency, low iron, tempered glass 4mm
Frame	Anodized aluminum alloy
Junction Box	IP67 rated, with 3 bypass diode
Output cable	12 AWG(US), 900mm
Connector	MC4 compatible
Dimension	1956x992x40mm
Weight	26.5Kg

Thermal Characteristics

Pmax Temperature Coefficient	-0.43%/K
Voc Temperature Coefficient	-0.34%/K
Isc Temperature Coefficient	+0.049%/K
NOCT	45±2°C

Maximum Ratings

Operating Temperature	-40~+85°C
Maximum Series Fuse Rating	15A
Maximum System Voltage	1000V

Specifications in this datasheet are subjected to change without prior notice

Nemy Group



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