

JTM 195-72M

180/185/190/195



SUPERIOR PRODUCTION

Vertically integrated automatic production lines for wafers, cells and solar modules.



ELECTRICAL INSPECTION

Electronic double inspection before delivery guarantees a faultless delivery, without any cracks or fault currents.



INSTALLTION

Easy installation and removing Ready for connection
Prefabricated cables Multi-Contact connector



WARRANTY

10-year material and workmanship warranty
12 years for a guaranteed minimum benefit of 90%.
25 years for a guaranteed minimum benefit of 80%



QUALITY MANAGEMENT

Through the highest quality management, Topoint solar modules achieve the greatest quality. They are manufactured by international standards, verified by independent testing laboration and certified (UL, IEC, MCS).



QUALITY CONTROL

Strict quality control, with the highest international standards ISO 9001:2008 (Quality Management System) and ISO 14001:2004 (environmental management system), delivers excellent quality standards.

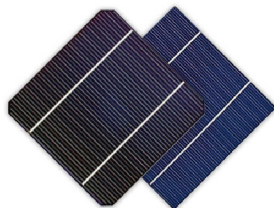


OUR PRODUCTS

Our vertically integrated automatic production line includes the complete conception and manufacture of silicon-ingots, wafers, solar cells and PV systems (for example: PV street lamps). Our quality control measures ensure sustainable, high standards and certification to international standards.



Wafer production



Cell production



Module production



Projects

Certification

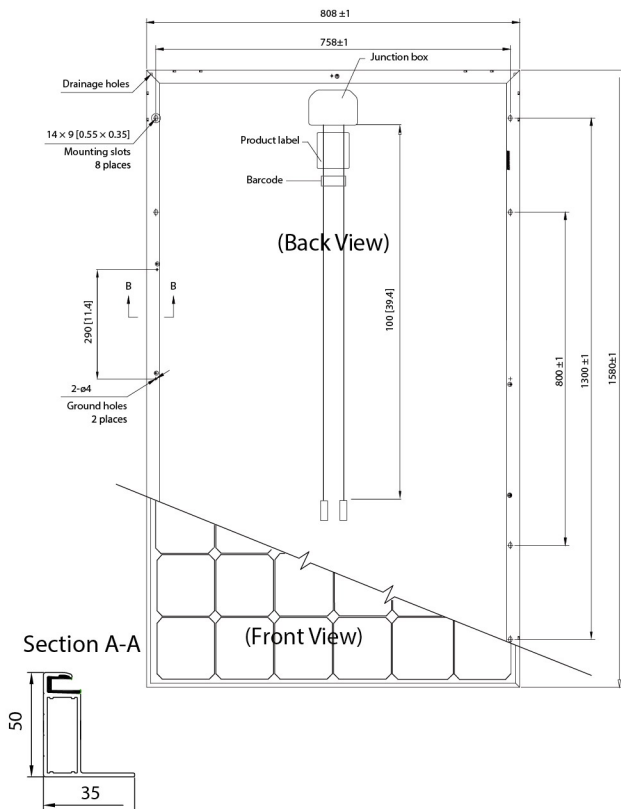


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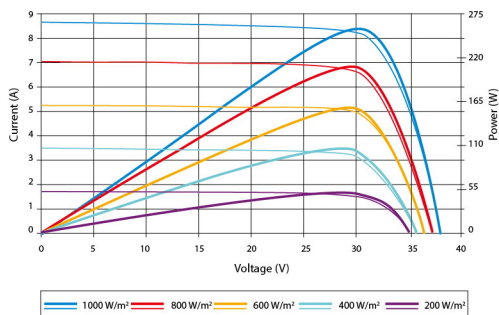
Electrical Characteristics	JTM185-72M	JTM190-72M	JTM195-72M	JTM200-72M
Maximum Power at STC (Pmax)	185W	190W	195W	200W
Optimum Operating Voltage (Vmp)	36.0V	36.5V	37.2V	37.13V
Optimum Operating Current (Imp)	5.14A	5.20A	5.24A	5.39A
Open Circuit Voltage (Voc)	43.2V	43.8V	44.6V	46.1V
Short Circuit Current (Isc)	5.76A	5.83A	5.88A	5.79A
Module Efficiency	14.50%	14.90%	15.30%	15.66%
Operating Module Temperature	-40°C to +85°C			
Maximum System Voltage	1000VDC (IEC)			
Maximum Series Fuse Rating	10A			
Power Tolerance	0/+5%			

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%



Note: mm

Current-Voltage & Power-Voltage Curve



Excellent performance under weak light conditions: at an irradiance intensity of 200 W/m² (AM 1.5, 25 °C), 95.5% or higher of the TOPOINT efficiency (1000 W/m²) is achieved

NOCT	JTM180-72M	JTM185-72M	JTM190-72M	JTM195-72M
Maximum Power at STC (Pmax)	132W	136W	139W	143W
Optimum Operating Voltage (Vmp)	32.8V	32.8V	33.2V	33.9V
Optimum Operating Current (Imp)	4.03A	4.14A	4.19A	4.22A
Open Circuit Voltage (Voc)	39.7V	39.7V	40.3V	41.0V
Short Circuit Current (Isc)	4.54A	4.67A	4.72A	4.76A

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Voc * %/C = mV/C

Temperature Characteristics	
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.439%/°C
Temperature Coefficient of Voc	-0.319%/°C
Temperature Coefficient of Isc	0.033%/°C

Temp Coef of VMP = -0.4395%/C, 0.1604 v/C

Mechanical Characteristics	
Solar Cell	Monocrystalline silicon 125 × 125 mm
No. of Cells	72 (6 × 12)
Dimensions	1580 × 808 × 35mm
Weight	15.5 kg
Front Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP65 rated
Output Cables	TUV
Connectors	4.0 mm ² , symmetrical lengths (-) 900mm and (+) 900 mm
	MC4 connectors

Packing Configuration			
Container	20' GP	40' GP	40' HC
Pieces per pallet	66	66	72
Pallets per container	6	14	14
Pieces per container	396	924	1008