

JTM 245-60P

250/245/240/235



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%



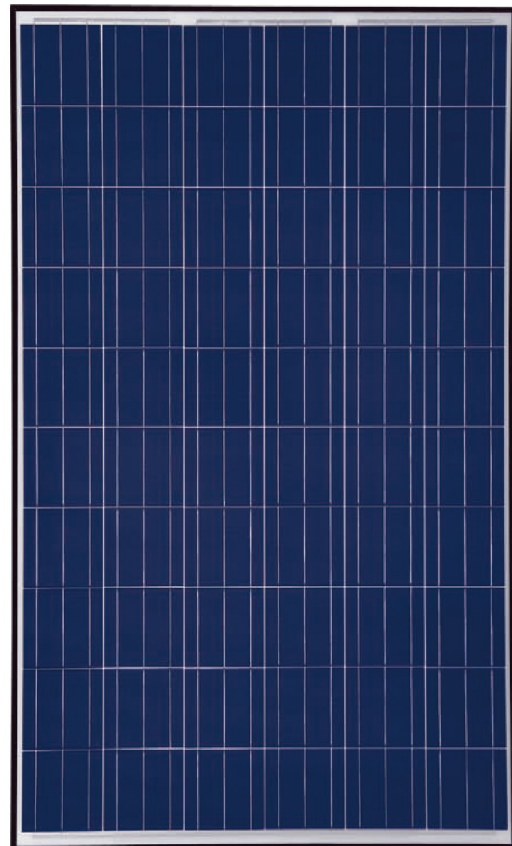
QUALITY MANAGEMENT

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).



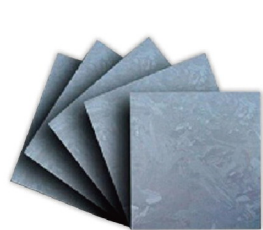
QUALITY CONTROL

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

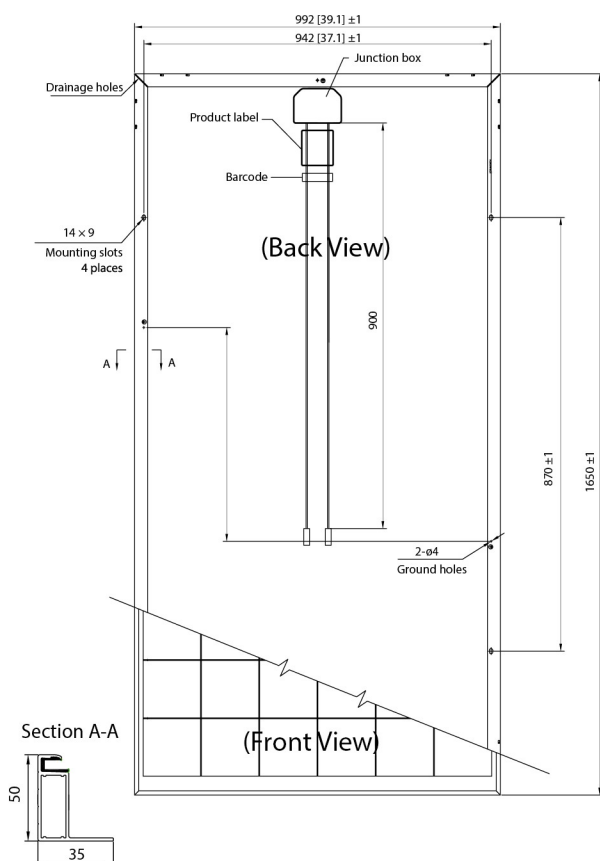


Headquarters

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Electrical Characteristics	JTM235-60P	JTM240-60P	JTM245-60P	JTM250-60P
Maximum Power at STC (P _{max})	235W	240W	245W	250W
Optimum Operating Voltage (V _{mp})	30.0V	30.0V	30.5V	30.6V
Optimum Operating Current (I _{mp})	7.83A	8.00A	8.03A	8.17A
Open Circuit Voltage (V _{oc})	36.0V	36.0V	36.6V	36.7V
Short Circuit Current (I _{sc})	8.77A	8.96A	8.99A	9.15A
Module Efficiency	14.50%	14.80%	15.10%	15.40%
Operating Module Temperature	-40°C to +85°C			
Maximum System Voltage	1000VDC (IEC)			
Maximum Series Fuse Rating	15A			
Power Tolerance	0/+3%			

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



NOCT	JTM235-60P	JTM240-60P	JTM245-60P	JTM250-60P
Maximum Power at STC (P _{max})	172W	176W	179W	183W
Optimum Operating Voltage (V _{mp})	27.3V	27.3V	27.76V	27.8V
Optimum Operating Current (I _{mp})	6.30A	6.44A	6.46A	6.58A
Open Circuit Voltage (V _{oc})	33.1V	33.1V	33.7V	33.8V
Short Circuit Current (I _{sc})	7.10A	7.26A	7.28A	7.41A

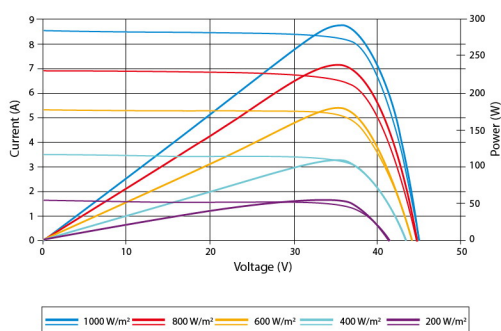
NOCT: Irradiance 800 W/㎡, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Temperature Characteristics	
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of P _{max}	-0.466%/°C
Temperature Coefficient of V _{oc}	-0.33%/°C
Temperature Coefficient of I _{sc}	0.037%/°C

Mechanical Characteristics	
Solar Cell	Polycrystalline silicon 156 × 156 mm
No. of Cells	60 (6 × 10)
Dimensions	1640 × 992 × 45mm
Weight	19.5 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	48	48	52
Pallets per container	6	14	14
Pieces per container	288	672	728

Current-Voltage & Power-Voltage Curve



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