



OUR APPROACH

Msquare Energy believes high quality solar power should be produced locally at globally competitive pricing. Meticulous manufacturing, testing and quality assurance standards, TÜV certified raw materials and developed QMS system ensures consistent quality and traceability.



AUSTRALIAN QUALITY STANDARD

- Excellent mechanical loads 3600 PA positive & 1600PA negative
- High temperature operation
- Easy module replacement Quality control and traceability by stringent QMS system

CERTIFICATIONS

- TÜV & SÜD
- CSA, IEC 61730 and IEC 61215
- State of ART fully automatic facility
- Earth leakage tested to 3600V DC
- Double Electro-Luminescence (EL) tested
- Built to perform in low light condition
- Module exceeds the fire class C performance per UL790



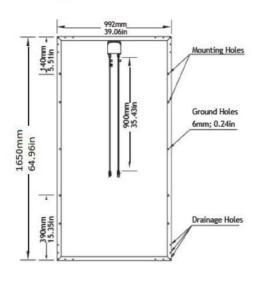
PERFORMANCE WARRANTY

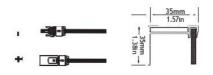
Max power decrease 0.5%/yea 97% at the end of first year 90% at the end of 20th year 87% at the end of 25th year





SPECIFICATIONS





PV Connector Model - TT01, 1000V, 30A, IP67

Solar Cells: 5 bus-bar, Mono Perc Solar Glass: 3.2mm, tempered, low iron, high transparency solar safety glass. **Encapsulation: EVA** Backsheet: White Frame: Extruded, black anodized aluminum Junction Box: IP67 rated, 900mm cable, Weight: 18-21KG External Dimension: 1650mm x 992mm x 35mm MS-290-M60 MS-310-M60 MS-315-M60 MS-300-M60 Modules STC NOCT STC NOCT STC NOCT STC NOCT Maximum Power (Pmax) 290Wp 215Wp 300Wp 223Wp 310Wp 230Wp 315Wp 234Wp Maximum Power Voltage (Vmp) 31.7V 30.0V 32.1V 30.3V 32.6V 30.7V 32.8V 30.9V Maximum Power Current(Imp) 9.15A 7.17A 9.35A 7.36A 9.51A 7.44A 9.61A 7.58A 39.3V 36.3V 39.7V 36.7V 40.4V 37.3V Open-circuit Voltage (Voc) 40.2V 37.1V Short-circuit Current (Isc) 9.44A 7.63A 9.65A 7.82A 9.82A 7.96A 9.92A 8.05A 18.3% 18.9% 19.3% 19.7% Module Efficiency STC (%) Operating Temperature (°C) -40°C ~+85°C 1000VDC (UL and IEC) Maximum System Voltage Maximum Series Fuse Rating 20A Power Tolerance 0~+3%

Short Circuit Current Tolerance - +/-4% Open Circuit Voltage Tolerance - +/-2%

NOCT : Irradiance at 800 W/m2, Ambient Temperature 20°C, Wind Speed 1 m/s

STC : Irradiance 1000 W/m2, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3

TEMPERATURE RATINGS		MAXIMUM RATINGS	
Nominal OperatingCell Temp	45°C (±2°C)	Operational Temp	-40 to +85°C
Tempcoefficient of Pmax	-0.31%/°C	Max system Voltage	1000V DC (IEC)
Tempcoefficientof Voc	-0.31%/°C	Max Series Fuse Rating	20A
Tempcoefficient of Isc	0.03%/°C	Mechanical Load	3600pa

Msquare Energy Pty Ltd.

6 96-100 Toongabbie Rd, Girraween NSW 2145 Australia

 I800 336 786 , +61286073354
Support@msquareenergy.com.au www.msquareenergy.com.au

MS-071901

Made In China