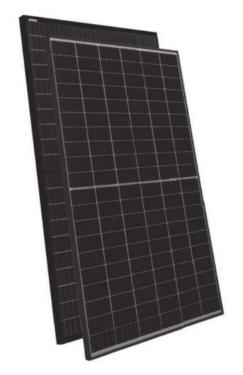




OUR APPROACH

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.



TÜV SUD Ja

PERFORMANCE WARRANTY

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

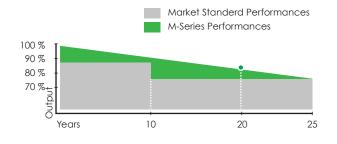


AUSTRALIAN QUALITY STANDARD

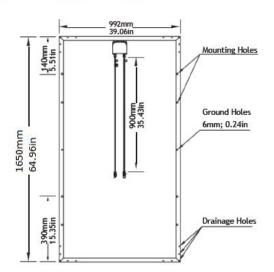
- Excellent mechanical loads 3600 PA positive & 1600 PA negative
- High temperature operation
- Easy module replacement
 Quality control and traceability by stringent QMS system

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



MODULE DESIGN





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

SPECIFICATIONS

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: 18-24KG

External Dimension: 1650mm x 992mm x 35mm

Modules	MS-290-M120-H	MS-300-M120-H	MS-310-M120-H	MS-315-M120-H	MS-330-M120-H
	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT
Maximum Power (Pmax)	290Wp 216Wp	300Wp 225Wp	310Wp 230Wp	315Wp 234Wp	330Wp 241Wp
Maximum Power Voltage (Vmp)	32.5V 30.4V	33V 30.9V	33.5V 31.2V	33.7V 31.5V	34.4V 31.9V
Maximum Power Current(Imp)	8.93A 7.11A	9.10A 7.29A	9.26A 7.43A	9.35A 7.43A	9.60A 7.49A
Open-circuit Voltage (Voc)	38.6V 36.2V	39.2V 36.8V	39.8V 37.2V	40.1V 37.5V	40.8V 37.9V
Short-circuit Current (Isc)	9.46A 7.53A	9.62A 7.79A	9.77A 7.81A	9.85A 7.86A	10.11A 7.92A
Module Efficiency STC (%)	18.8%	19.1%	19.4%	19.7%	20.03%
Operating Temperature (°C)	-40°C ~+85°C				
Maximum System Voltage	1000VDC (UL and IEC)				
Maximum Series Fuse Rating	20A				
Power Tolerance	0~+3%				

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

Msquare Energy Pty Ltd.

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	
Nominal OperatingCell Temp	45°C (±2°C)
Tempcoefficient of Pmax	-0.31%/°C
Tempcoefficientof Voc	-0.31%/°C
Tempcoefficient of Isc	0.03%/°C

MAXIMUM RATINGS	
Operational Temp	-40 to +85°C
Max system Voltage	1000V DC (IEC)
Max Series Fuse Rating	20A
Mechanical Load	3600pa

Made In China

- 336 786 , +61286073354
- support@msquareenergy.com.au www.msquareenergy.com.au