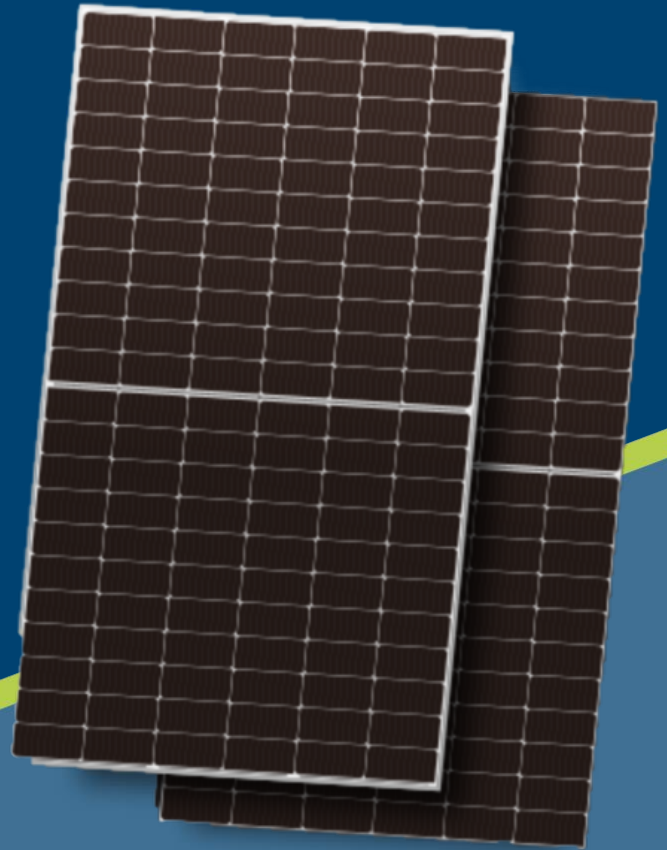


SERIES
MSEA
72M9
430-460 WATT



True Source
of Energy

AUSTRALIAN MADE

FULLY AUTOMATED & LARGEST MANUFACTURING FACILITY IN AUSTRALIA



Our Approach We believe high quality solar power should be produced locally at globally competitive pricing.

Meticulous manufacturing, testing and quality assurance standards, DEKRA certified according to IEC standards and developed QMS system ensures consistent quality and traceability.

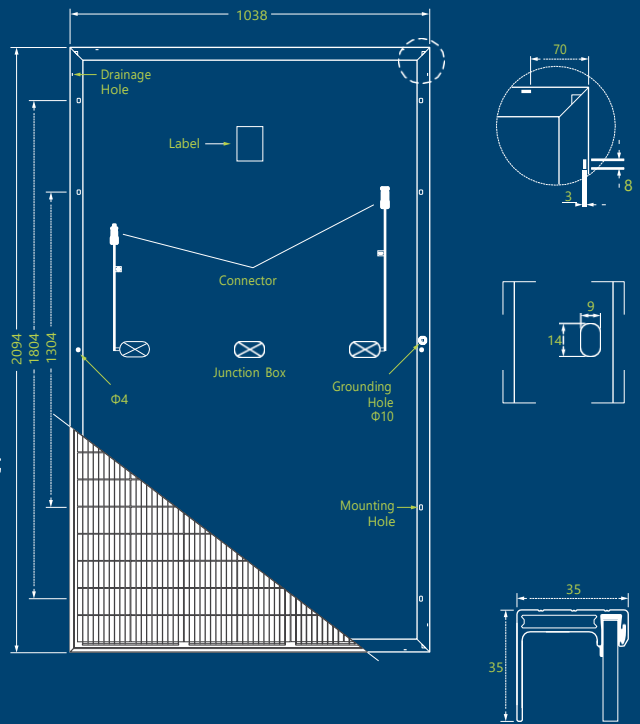
Our Quality

- 2400 pa wind & 5400 pa mechanical loads
- High temperature operation
- Easy module replacement
- Quality control and traceability by stringent QMS system
- 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 Pass fire class C performance per UL790



Module Design

- Cells Type** Mono 166×83mm
- Weight** 23.5kg
- Dimension** 2094×1038×35mm(L×W×T)
- Cables** 4.0mm², Portrait: 300mm(+)/400mm(-)
Landscape: 1400mm(+)/1400mm(-)
- No. of Cells** 144 (6×24)
- Glass** 3.2mm High Transmission, Antireflection Coating
- Junction box** IP68, 3 Bypass Diodes
- Connector** QC Solar (Suzhou) Corporation(QC4.10-35) OR
Staubli Electrical Connector AG(PV -KST4-EVO2/xy_U R;
PV-KBT4-EVO2/xy_UR)
- Packing** 31pcs/pallet, 682pcs/40HQ



**AUSTRALIAN
QUALITY THAT
YOU CAN TRUST**

Modules

	MSEA72M9-430W		MSEA72M9-435W		MSEA72M9-440W		MSEA72M9-445W		MSEA72M9-450W		MSEA72M9-455W		MSEA72M9-460W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	430W	323W	435W	327W	440W	331W	445W	334W	450W	338W	455W	342W	460W	346W
Open-circuit Voltage (Voc)	48.70V	46.09V	48.85V	46.23V	49.00V	46.37V	49.15V	46.51V	49.30V	46.66V	49.45V	46.80V	49.60V	46.94V
Maximum Power Voltage (Vmp)	41.51V	39.28V	41.66V	39.43V	41.81V	39.57V	41.96V	39.71V	42.11V	39.85V	42.26V	39.99V	42.41V	40.14V
Short-circuit Current (Isc)	11.23A	9.06A	11.26A	9.09A	11.29A	9.11A	11.32A	9.13A	11.35A	9.16A	11.38A	9.18A	11.41A	9.21A
Maximum Power Current (Imp)	10.36A	8.23A	10.44A	8.29A	10.52A	8.36A	10.61A	8.42A	10.69A	8.49A	10.77A	8.55A	10.85A	8.61A
Module Efficiency (%)	19.78%		20.01%		20.24%		20.47%		20.70%		20.93%		21.16%	
Operating Temperature (°C)	-40°C ~ +85°C													
Maximum System Voltage	1500VDC													
Maximum Series Fuse Rating	20A													
Power Tolerance	0~+5W													
Tolerance of rating Pmax/Isc/Voc%	±3/±3/±3													

NOCT : Irradiance 800w/m², Cell temperature 20 °C, Spectrum AM1.5, Wind speed 1m/s

STC : Irradiance 1000w/m², Cell temperature 25 °C, Spectrum AM1.5

TEMPERATURE RATINGS

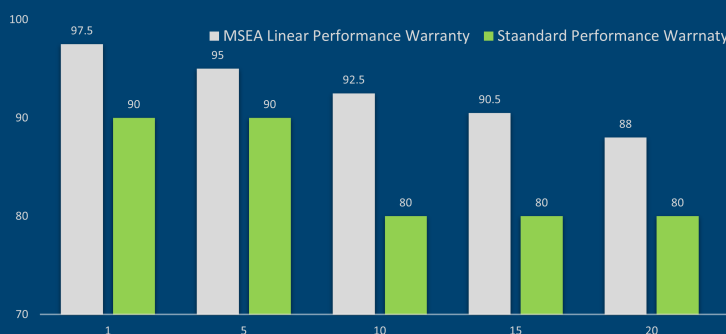
Nominal Operating Cell Temp	45°C ±2°C
Tempcoefficient of Pmax	-0.37%/°C
Tempcoefficient of Voc	-0.29%/°C
Tempcoefficient of Isc	0.05%/°C

MAXIMUM RATINGS

Operational Temp	-40 to +85°C
Max system Voltage	1500VDC (IEC)
Max Series Fuse Rating	20A
Mechanical Load	5400pa

PERFORMANCE WARRANTY

Max power degradation 0.5%/year
 97.5% at the end of first year
 92.5% at the end of 10th year
 83.5% at the end of 25th year



21.16%
Max Module Eff.

0~+5W
Positive Tolerance



MADE IN AUSTRALIA

CONTACT US

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