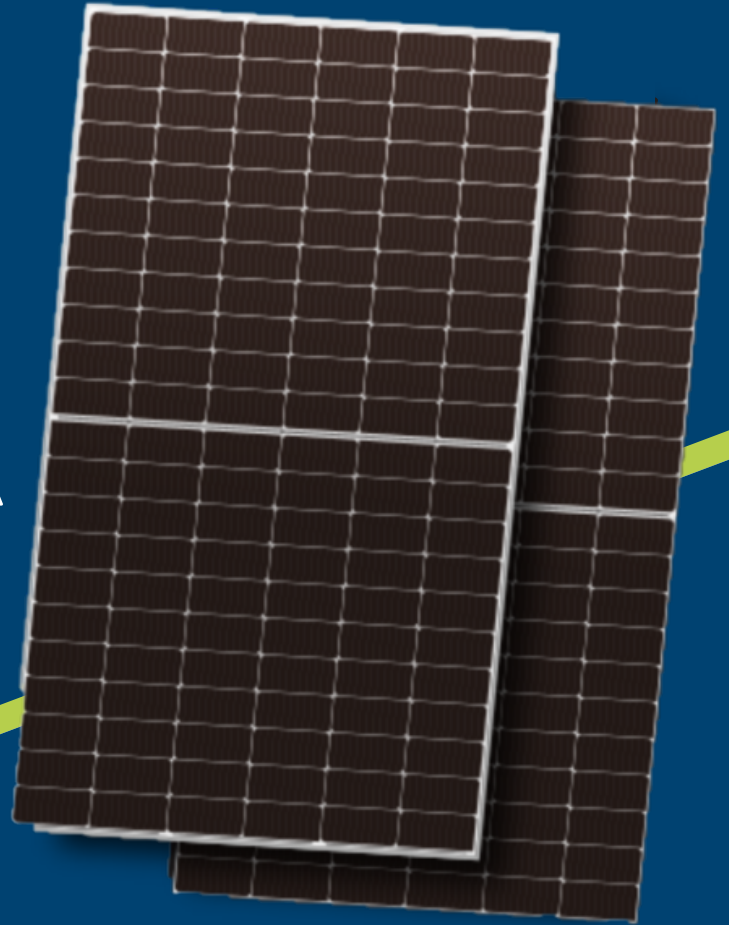


SERIES  
**MSEA**  
**72M10**  
520-550 WATT



**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.

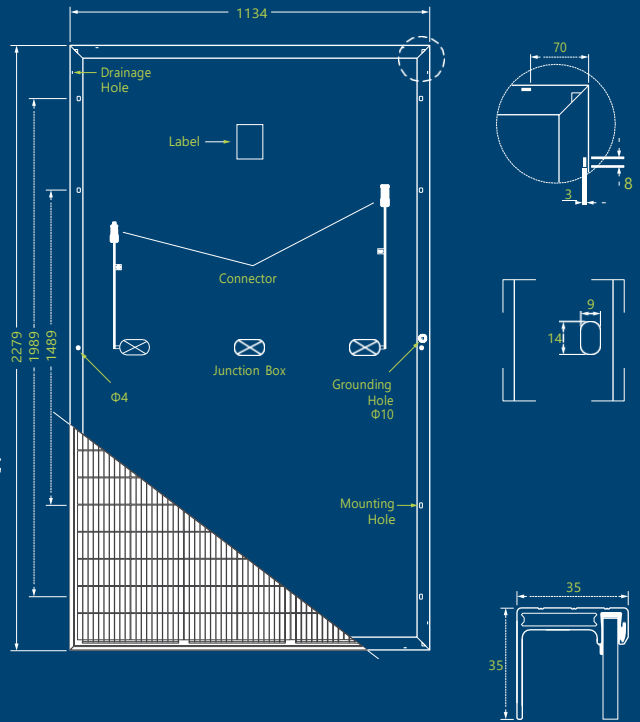
## Our Quality

- 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 182×91mm
- Weight** 29kg
- Dimension** 2279×1134×35mm(L×W×T)
- Cables** 4.0mm<sup>2</sup>, 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, 620pcs/40HQ



**AUSTRALIAN  
QUALITY THAT  
YOU CAN TRUST**

## Modules

	MSEA72M10-520W		MSEA72M10-525W		MSEA72M10-530W		MSEA72M10-535W		MSEA72M10-540W		MSEA72M10-545W		MSEA72M10-550W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	520W	387W	525W	391W	530W	394W	535W	398W	540W	402W	545W	405W	550W	409W
Open-circuit Voltage (Voc)	49.0V	46.0V	49.2V	46.1V	49.4V	46.3V	49.6V	46.5V	49.8V	46.7V	50.0V	46.9V	50.2V	47.1V
Maximum Power Voltage (Vmp)	41.2V	38.6V	41.4V	38.8V	41.6V	39.0V	41.8V	39.2V	42.0V	39.4V	42.2V	39.6V	42.4V	39.8V
Short-circuit Current (Isc)	13.42A	10.84A	13.48A	10.89A	13.54A	10.94A	13.60A	10.99A	13.66A	11.04A	13.72A	11.09A	13.78A	11.13A
Maximum Power Current (Imp)	12.62A	10.01A	12.68A	10.06A	12.74A	10.11A	12.80A	10.15A	12.86A	10.20A	12.91A	10.24A	12.97A	10.29A
Module Efficiency (%)	20.12%		20.31%		20.51%		20.70%		20.89%		21.09%		21.28%	
Operating Temperature (°C)	-40°C ~ +85°C													
Maximum System Voltage	1500VDC													
Maximum Series Fuse Rating	25A													
Power Tolerance	0~+5W													
Tolerance of rating Pmax/Isc/Voc%	±3/±3/±3													

NOCT : Irradiance 800w/m<sup>2</sup>, Cell temperature 20 °C, Spectrum AM1.5, Wind speed 1m/s

STC : Irradiance 1000w/m<sup>2</sup>, Cell temperature 25 °C, Spectrum AM1.5

## TEMPERATURE RATINGS

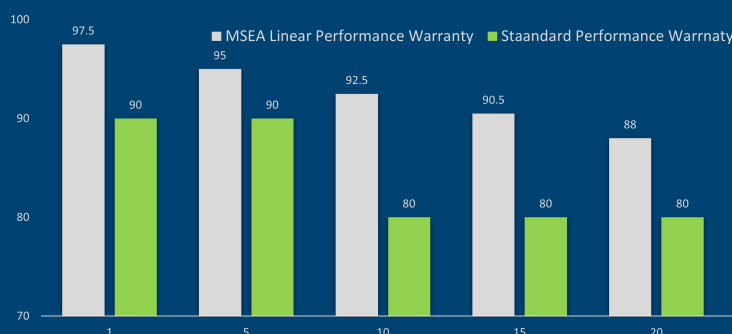
Nominal Operating Cell Temp	45°C ±2°C
Tempcoefficient of Pmax	-0.37%/°C
Tempcoefficient of Voc	-0.29%/°C
Tempcoefficient of Isc	0.05%/°C

## MAXIMUM RATINGS

Operational Temp	-40 to +85°C
Max system Voltage	1500VDC (IEC)
Max Series Fuse Rating	25A
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



**21.28 %**  
Max Module Eff.

**0~+5W**  
Positive Tolerance



MADE IN AUSTRALIA

## CONTACT US

# MSquare Energy Pty Ltd

For any enquiries, mail us at  
[support@msquareenergy.com.au](mailto:support@msquareenergy.com.au)

 1800 336 786 | +61 286073354

 96-100 Toongabbie Rd  
Girraween NSW Australia 2145

For more details, visit [msquareenergy.com.au](http://msquareenergy.com.au)