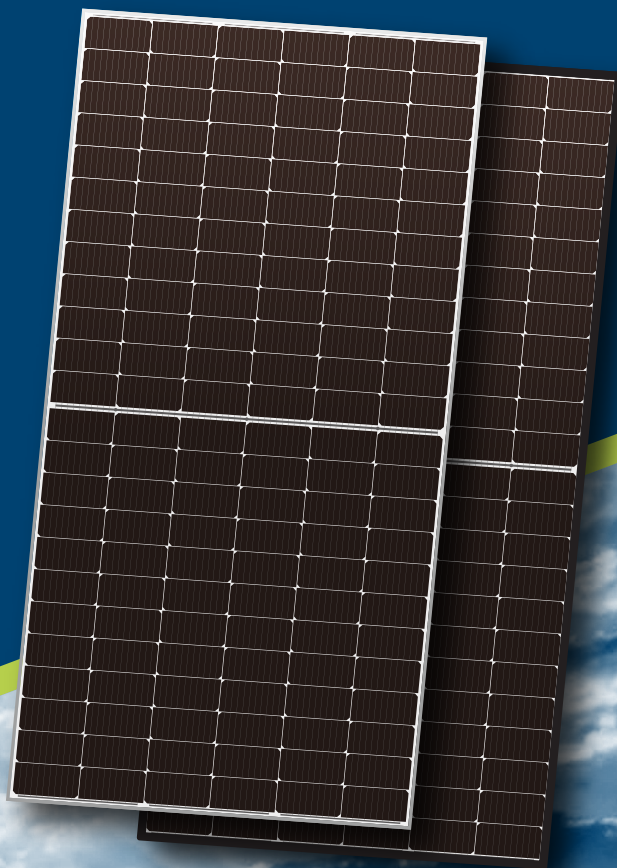




EVOLUTION ENERGY

SERIES
MSEA
72M10
520-550 WATT



True Source
of **Energy**

AUSTRALIAN MADE

FULLY AUTOMATED & LARGEST MANUFACTURING FACILITY IN AUSTRALIA



Crystalline Silicon
PV Modules
Type Testing

- IEC 61215-1: 2016
- IEC 61215-1-1: 2016
- IEC 61215-2: 2016
- IEC 61730-1: 2016
- IEC 61730-2: 2016
- EN 61215-1: 2016
- EN 61215-1-1: 2016
- EN 61215-2: 2017
- EN IEC 61730-1: 2018
- EN IEC 61730-2: 2018
- Periodically Factory Inspection as per CIG 021-024

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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
- PID , Salt mist and ammonia corrosion resistant
- 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

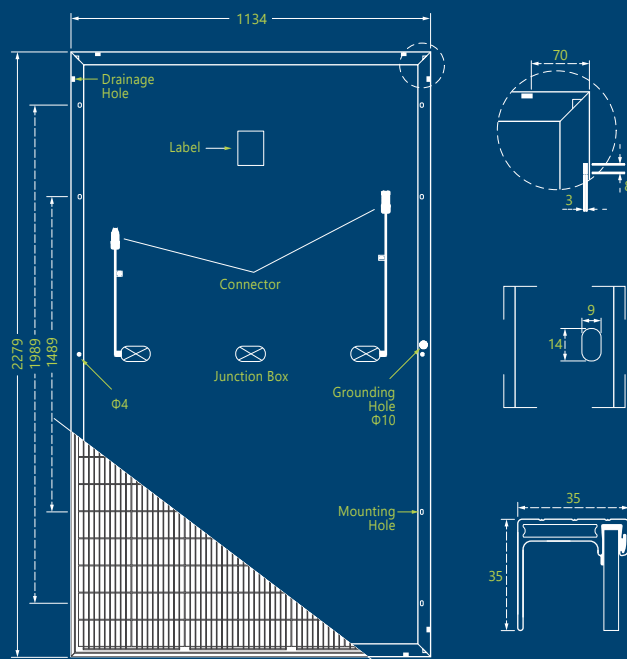


Module Design

Cells Type	Mono 182×91mm
Weight	29kg
Dimension	2279×1134×35mm(L×W×T)
Cables	4.0mm ² , 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	MC4 Compatible
Packing	31pcs/pallet, 620pcs/40HQ



**AUSTRALIAN
QUALITY THAT
YOU CAN TRUST**



Modules	MSEA-72M10 520W		MSEA-72M10 525W		MSEA-72M10 530W		MSEA-72M10 535W		MSEA-72M10 540W		MSEA-72M10 545W		MSEA-72M10 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	1000V/1500V DC													
Maximum Series Fuse Rating	25A													
Power Tolerance	0~+5W													
Tolerance of rating Pmax/Isc/Voc%	-0.35/0.05/-0.31													

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

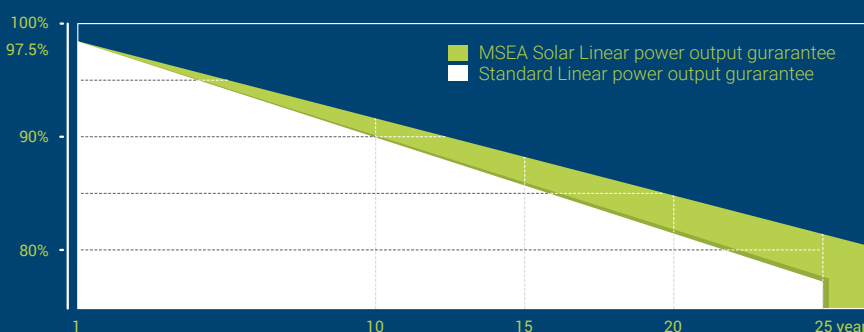
Nominal Operating Cell Temp	45°C ±2°C
Tempcoefficient of Pmax	-0.37%/°C
Tempcoefficient of Voc	-0.29%/°C
Tempcoefficient of Isc	0.05%/°C

MAXIMUM RATINGS

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

PERFORMANCE WARRANTY

Max power degradation 0.5%/year
97% at the end of first year
90% at the end of 10th year
80% at the end of 25th year



21.28 %
Max Module Eff.

0~+5W
Positive Tolerance



EVOLUTION ENERGY



MADE IN AUSTRALIA