

**MS**square **E**nergy

SERIES  
**MSEA**

295-310 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

[www.dekra-seal.com](http://www.dekra-seal.com)



**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

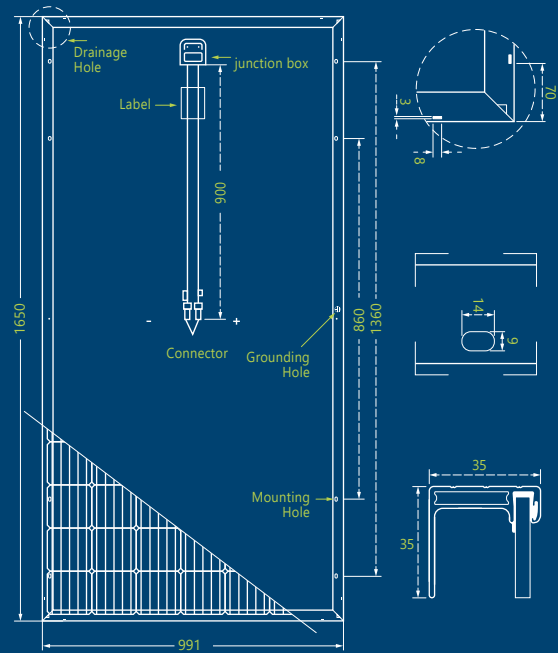


# Module Design

Cells Type	Mono 156.75×156.75mm
Weight	18.5kg
Dimension	1650×991×35mm (L×W×T)
Output Cables	TUV, Length 900mm, 4.0mm <sup>2</sup>
No.of Cells	60 (6×10)
Glass	3.2mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	QC4
Packing	30pcs/pallet, 400pcs/20GP, 924pcs/40HQ



**AUSTRALIAN  
QUALITY THAT  
YOU CAN TRUST**



## Modules

	MSEA60-295W		MSEA60-300W		MSEA60-305W		MSEA60-310W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	295W	220W	300W	224W	305W	227W	310W	231W
Open-circuit Voltage (Voc)	39.7V	36.9V	39.9V	37.1V	40.2V	37.2V	40.4V	37.5V
Maximum Power Voltage (Vmp)	32.5V	30.0V	32.7V	30.2V	32.9V	30.5V	33.1V	30.6V
Short-circuit Current (Isc)	9.55A	7.73A	9.64A	7.78A	9.72A	7.84A	9.81A	7.93A
Maximum Power Current (Imp)	9.08A	7.33A	9.19A	7.41A	9.28A	7.47A	9.37A	7.55A
Module Efficiency (%)	18.85%		18.95%		19.05%		19.15%	
Operating Temperature (°C)	-40 ~ +85°C							
Maximum System Voltage	1500V DC							
Maximum Series Fuse Rating	20A							
Power Tolerance	0~+5W							
Tolerance of rating Pmax/Isc/Voc%	3/4/4							

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	1500V DC (IEC)
Max Series Fuse Rating	20A
Mechanical Load	5400pa

## PERFORMANCE WARRANTY

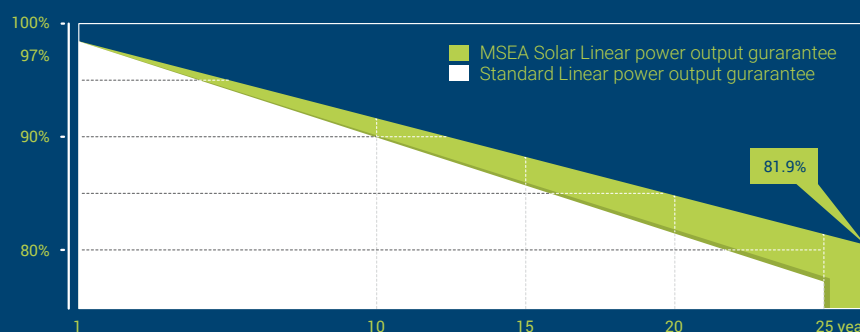
Max power degradation	0.5%/year
	97% at the end of first year
	90% at the end of 10th year
	80% at the end of 25th year

20  
YEAR

**PRODUCT  
WARRANTY**

25  
YEAR

**PERFORMANCE  
WARRANTY**



**19.15%**  
Max Module Eff.

**0~+5W**  
Positive Tolerance






Made In Australia

## CONTACT US

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](https://msquareenergy.com.au)