

# OpalSolar

## OSO60-156M Series MONOCRYSTALLINE PERC MODULE

### Key Features



Up To 19.24 Module Efficiency



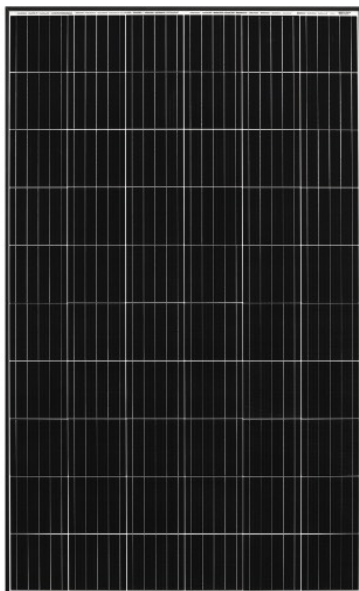
Monocrystalline Modules Designed For Residential, Commercial And Utility Applications - Rooftop Or Ground Mount



12 Year Product Warranty



Designed For IEC DC 1500V Applications



OPAL Solar is a premium product on the basis of the local support, independent quality control, independent factory acceptance testing and technical support in Australia.

OPAL Solar is locally supported through Solar Juice Pty Ltd, the leading supplier of PV products in the Australian market. You can be assured that it is a trusted brand that does not compromise on quality.

The panels are produced by ISO 9001 and ISO 14001 certified production facilities. Back to back warranty agreements are in place to provide peace of mind.

For more information, please visit:

[www.opalsolar.com.au](http://www.opalsolar.com.au)

### HEAD OFFICE

#### Solar Juice Pty Ltd

Unit 1, 10-12 Forsyth Close  
Wetherill Park, NSW 2164  
Phone: 02 9725 1111  
[solarjuice.com.au](http://solarjuice.com.au)

### COMPREHENSIVE CERTIFICATES

#### Certificates

IEC 61215: 2016

IEC 61730: 2016

#### Manufacturing Under

ISO 9001: 2015: Quality management systems

ISO 14001: 2015: Environmental management systems

#### Certificate Holder: Solar Juice Pty Ltd

Model number:

OSO60-156M-300W

OSO60-156M-305W

OSO60-156M-310W

OSO60-156M-315W



For more information, please scan the QR code or visit [www.opalsolar.com.au](http://www.opalsolar.com.au)



## DATA (STC)

### ELECTRICAL DATA(STC)

Peak Power Watts- $P_{MAX}$ (Wp)	300	305	310	315
Power Output Tolerance- $P_{MAX}$ (W)	±3% (0~+5W)			
Maximum Power Voltage- $V_{MPP}$ (V)	32.60	32.80	33.00	33.20
Maximum Power Current- $I_{MPP}$ (A)	9.20	9.30	9.39	9.49
Open Circuit Voltage- $V_{oc}$ (V)	40.10	40.30	40.50	40.70
Short Circuit Current- $I_{sc}$ (A)	9.74	9.83	9.92	10.02
Module Efficiency $\eta_m$ (%)	18.33	18.63	18.94	19.24
Short Circuit Current Tolerance	±4%			
Open Circuit Voltage Tolerance	±2%			

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25 °C, Air Mass AM1.5.

### MECHANICAL DATA

Solar cells	Monocrystalline 158.75x158.75 mm
Cell orientation	60 cells (6 x 10)
Module dimensions	1650x992x35mm
Weight	17.5Kg
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Frame	Black anodized aluminium alloy
Backsheet	White
J-Box	IP67 rated (3 diodes)
Glass	Photovoltaic Technology cable 4.0mm <sup>2</sup> 1000 mm or Customized Length
Connector	DJ2011-4

### TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44 °C (±2 °C)
Temperature Coefficient of $P_{MAX}$	- 0.41%/°C
Temperature Coefficient of $V_{oc}$	- 0.31%/°C
Temperature Coefficient of $I_{sc}$	0.05%/°C

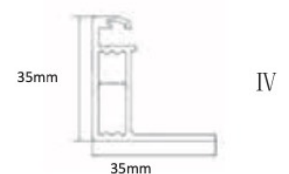
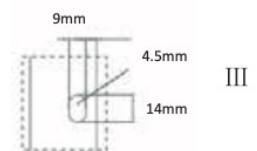
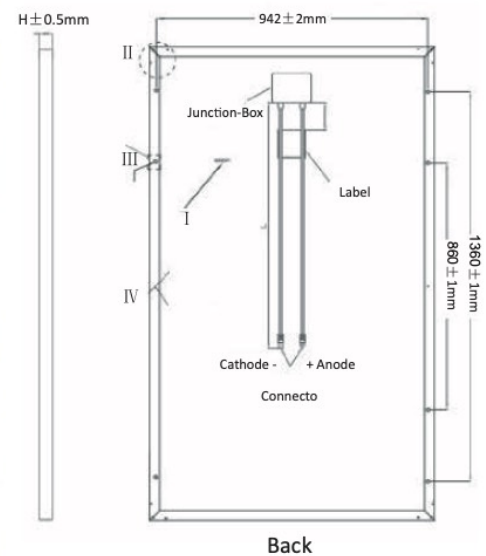
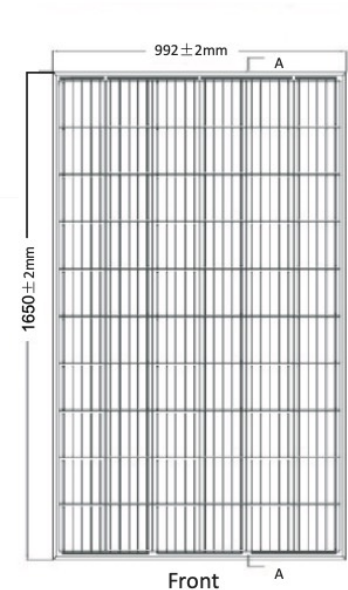
### PACKAGING

Standard packaging	30pcs /pallet
Module quantity per 20' container	360 pcs
Module quantity per 40' container	840 pcs

### MAXIMUM RATINGS

Operational Temperature	-40~+85 °C
Maximum System Voltage	1500VDC(IEC)
Max Series Fuse Rating	15A

## Module Diagram



## I-V Curves

### SOLAR MODULE 60-320W

