

OpalSolar

OSO60-156M Series

MONOCRYSTALLINE PERC MODULE

OSO60-156M-300W, 305W, 310W, 315W

KEY FEATURES

300-315 PEAK
POWER WATT

UP TO 19.55% MODULE
EFFICIENCY

60 CELLS MONOCRYSTALLINE
MODULES

DESIGNED FOR IEC DC 1500V
APPLICATIONS

CERTIFIED TO WITHSTAND
INCREASED LOADS OF UP TO 5400PA

EXCELLENT TEMPERATURE COEFFICIENT
PROVIDING HIGHER YIELDS

WARRANTY

12 YEAR
PRODUCT WARRANTY

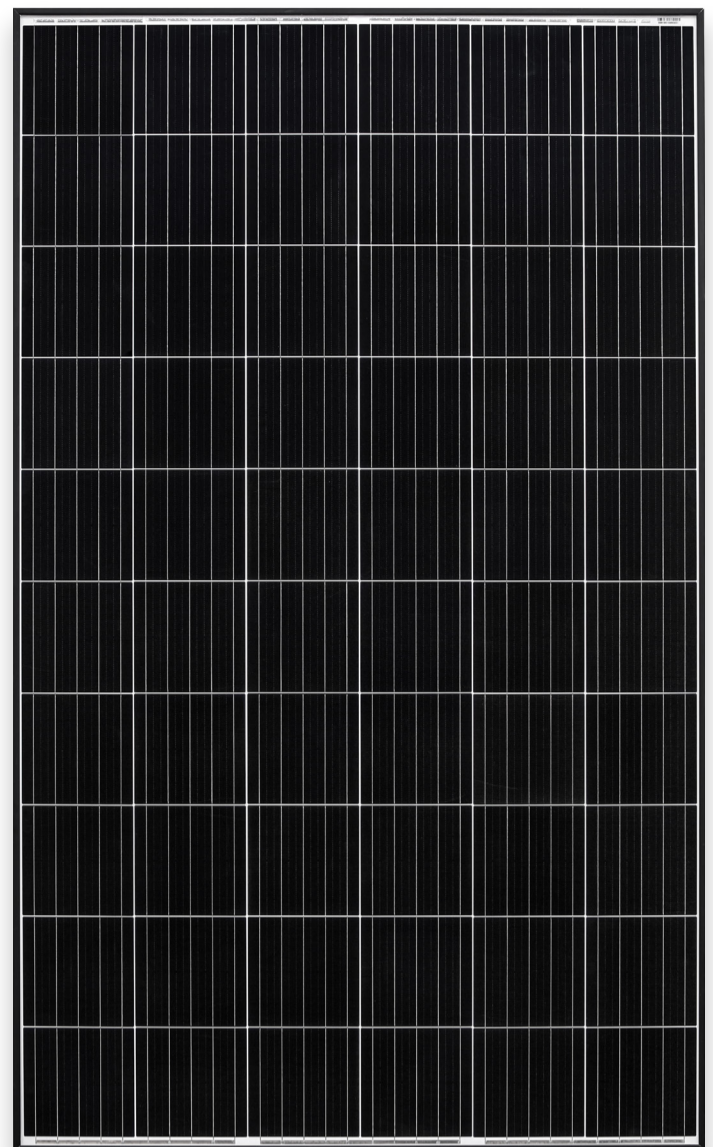
25 YEAR
PERFORMANCE WARRANTY

MODEL NUMBERS

OSO60-156M-300W, OSO60-156M-310W,
OSO60-156M-305W, OSO60-156M-315W.

OpalSolar

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ABOUT

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.

CERTIFICATION

Certificates	Certificate Holder
IEC 61215: 2016	Solar Juice Pty Ltd
IEC 61730: 2016	



Manufacturing Under
ISO 9001: 2015: Quality management systems
ISO 14001: 2015: Environmental management systems

MECHANICAL DATA

Solar cells	Monocrystalline 158.75 x 158.75 mm
Cell orientation	60 cells (6 x 10)
Module dimensions	1650 x 992 x 40/35mm or 1665 x 1002 x 40/35mm
Weight	18.5 /17.5Kg or 20.1/19Kg
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Frame	Silver & black anodized aluminium alloy
Backsheet	White
J-Box	IP67 rated (3 diodes)
Glass	Photovoltaic Technology cable 4.0mm ² 1000 mm or Customized Length
Connector	MC4 or MC4 Compatible

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

ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)	300	305	310	315	320
Power Output Tolerance-P _{MAX} (W)	±3% (0~+5W)				
Maximum Power Voltage-V _{MPP} (V)	32.60	32.80	33.00	33.20	33.40
Maximum Power Current-I _{MPP} (A)	9.20	9.30	9.39	9.49	9.58
Open Circuit Voltage-V _{OC} (V)	40.10	40.30	40.50	40.70	40.90
Short Circuit Current-I _{SC} (A)	9.74	9.83	9.92	10.02	10.11
Module Efficiency η_m (%)	18.33	18.63	18.94	19.24	19.55
Open Circuit Voltage Tolerance	±2%				
Short Circuit Current Tolerance	±4%				

STC:Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5.

PACKAGING

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

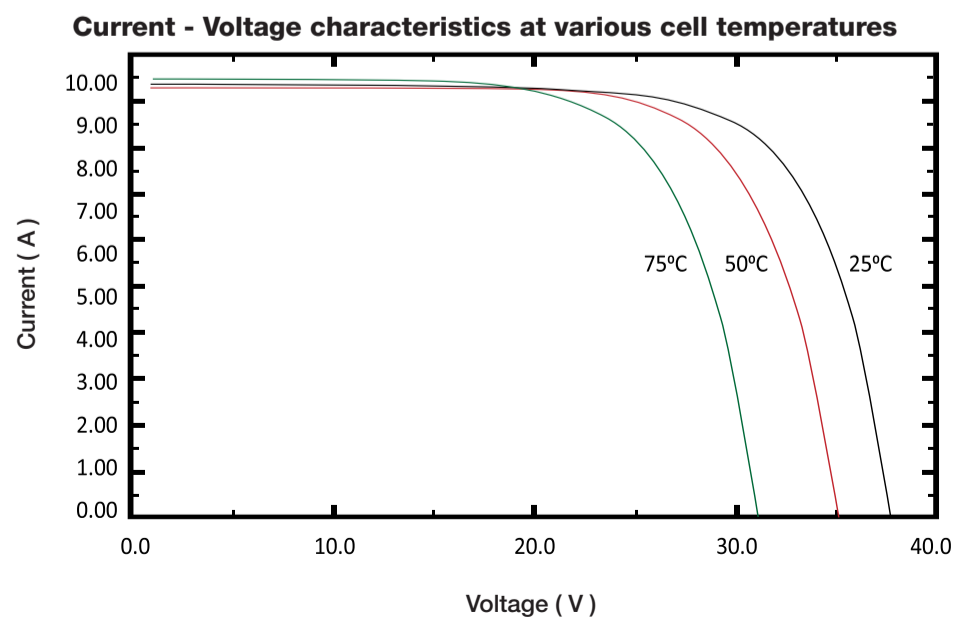
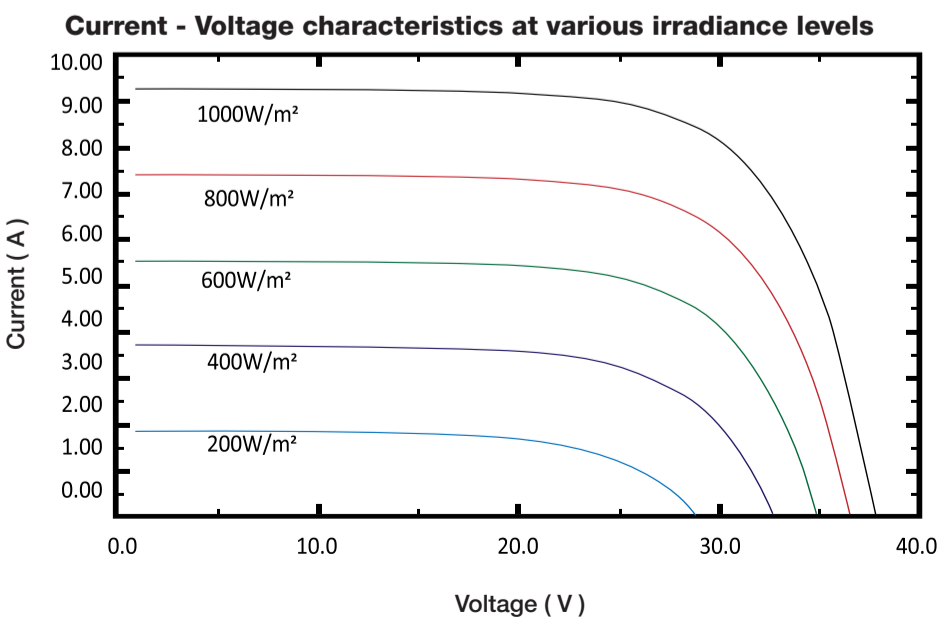
MAXIMUM RATINGS

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

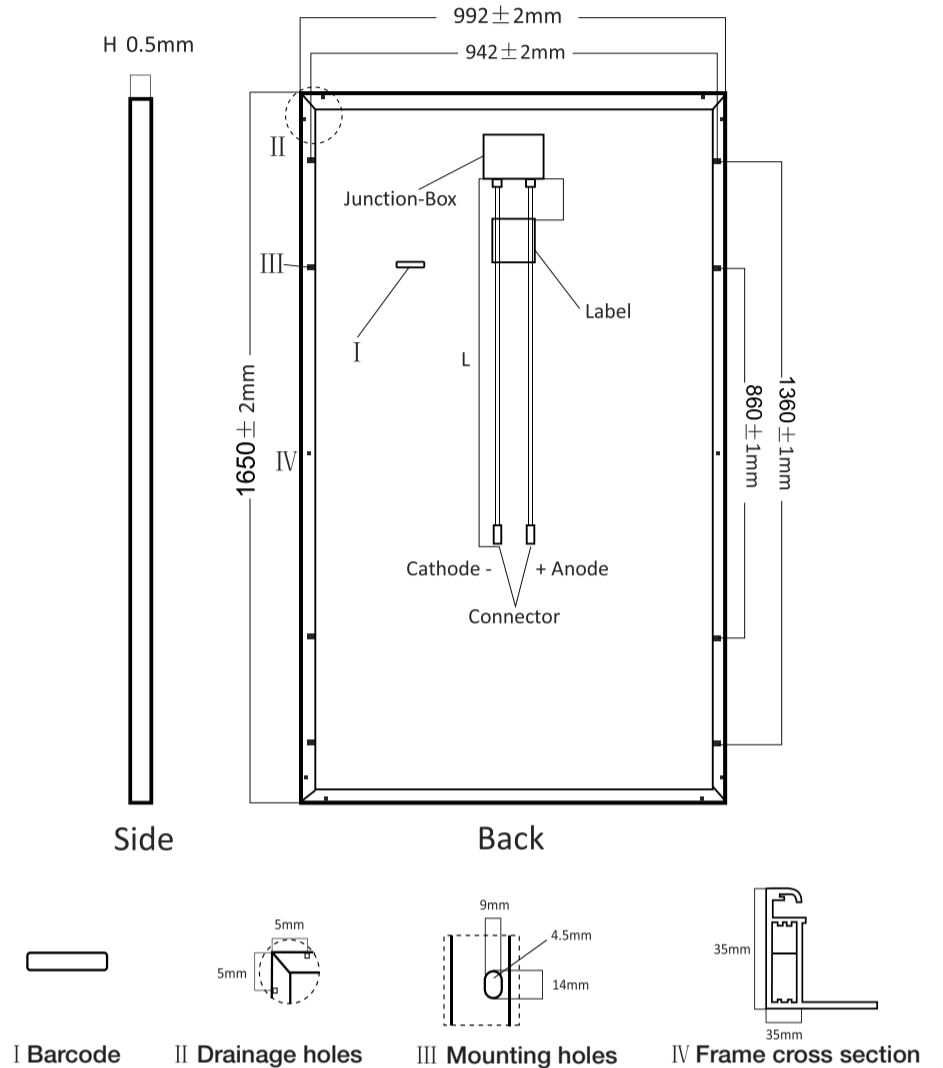
COMPREHENSIVE CERTIFICATES

Certificates	IEC 61215: 2016, IEC 61730: 2016
Model number	OSO60-156M-300W, OSO60-156M-305W, OSO60-156M-310W, OSO60-156M-315W
Manufacturing Under	ISO 9001: 2015: Quality management systems ISO 14001: 2015: Environmental management systems
Certificate Holder	Solar juice
Product warranty	12 Years
Performance warranty	25 years

I-V CURVE



TECHNICAL DRAWING



LINEAR PERFORMANCE WARRANTY

