

For a Free Quote:

Web: EnergyPal.com/solar

Call: 1-800-990-3725

Email: contact@energypal.com

EnergyPal

Solar Panel Guide Specification Data Sheet

**OpalSolar
QSA290-305M-60-S
QSA290M-60-S**

Also available on the web at
EnergyPal.com/opalsolar-solar-panels/qa290m-60-s



OpalSolar

QSA-60M Series MONOCRYSTALLINE PERC MODULE

Key Features



Up To 18.4 Module Efficiency



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



12 Year Product Warranty



Designed For IEC DC 1000V Applications

OPAL Solar is a premium product made by Tier 1 manufacturer 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

HEAD OFFICE

Solar Juice Pty Ltd

Unit 1, 10-12 Forsyth Close
Wetherill Park, NSW 2164
Phone: 02 9725 1111
solarjuice.com.au

COMPREHENSIVE CERTIFICATES

Certificates

IEC 61215: 2016

IEC 61730: 2016

Manufacturing Under

ISO 9001: 2008: Quality management systems

ISO 14001: 2004: Environmental management systems

CEC APPROVED

Certificate Holder: Solar Juice Pty Ltd

Model number:

QSA290M-60-S

QSA295M-60-S

QSA300M-60-S

QSA305M-60-S



IEC 61215
IEC 61730
Regular Production
Surveillance

www.tuv.com
ID: 1419057001



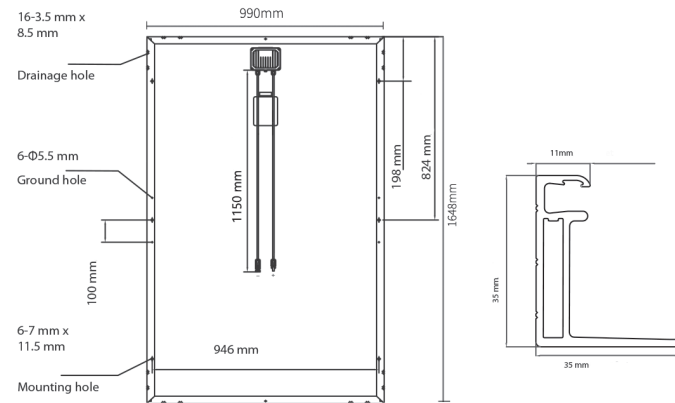
For more information, please
scan the QR code or visit
www.opalsolar.com.au



MECHANICAL PARAMETERS

Cell	Monocrystalline
Weight(kg)	18.3kg (Pallet: 616kg)
Dimensions (LxWxH) (mm)	1648x990x35
No. of Cells and Connections	60 (60x10)
Frame	Aluminium, Silver Anodized
Junction Box/ Output Connectors	IP67/ HCB40
Cable Length(mm)	1150
Front Glass Thickness(mm)	3.2
Packaging Configuration	31 Modules per Pallet

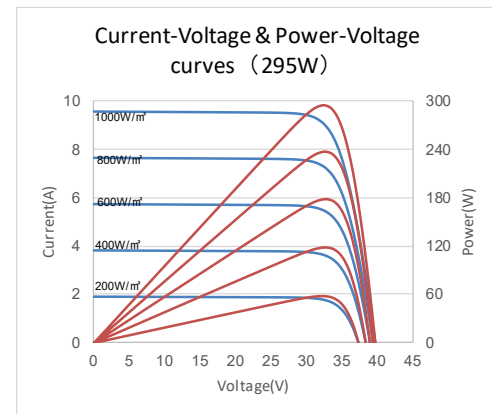
ENGINEERING DRAWINGS



WORKING CONDITIONS

Maximum System Voltage	1000Vdc
Operating Temperature	-40 °C ~+ 85°C
NOCT	46±2 °C
Power Sorting	±3%
Mechanical Loading	5400Pa
Max. Fuse Current Rating	15A
Temperature Coefficient of Isc	+0.042%/°C
Temperature Coefficient of Voc	-0.284%/°C
Temperature Coefficient of Pmax	-0.380%/°C

I-V CURVE



ELECTRICAL PARAMETERS (STC)

Model Number	QSA290M-60-S	QSA295M-60-S	QSA300M-60-S	QSA305M-60-S
Rated Power in Watts-Pmax (Wp)	290	295	300	305
Open Circuit Voltage-Voc (V)	39.45	39.81	39.90	40.05
Short Circuit Current-Isc (A)	9.54	9.59	9.68	9.72
Maximum Power Voltage-Vmpp (V)	32.15	32.38	32.59	32.80
Maximum Power Current-Impp (A)	9.03	9.12	9.21	9.30
Module Efficiency	17.8%	18.1%	18.4%	18.7%

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

ELECTRICAL PARAMETERS (NOCT)

Model Number	QSA290M-60-S	QSA295M-60-S	QSA300M-60-S	QSA305M-60-S
Maximum Power-Pmax (Wp)	213.1	216.8	220.5	224.1
Open Circuit Voltage-Voc (V)	36.60	36.93	37.01	37.15
Short Circuit Current-Isc (A)	7.67	7.71	7.79	7.82
Maximum Power Voltage-Vmpp (V)	29.58	29.79	30.00	30.21
Maximum Power Current-Impp (A)	7.20	7.28	7.35	7.42

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s
Power Production Tolerance ±3%