SARONIC
SOLAR ENERGY SOLUTIONS



M60PCS

300W/295W/290W/285W/280W
310W/305W

PRODUCT SPECIFICATION

- Industry leading module power output warranty
- International quality, safety and performance certifications
- Manufacturing facility certified to ISO9001 quality management system standards
- Beautiful appearance, good durability & easy installation
- Special design in accordance with requirements of customers

OHSAS 18001 ISO 9001 ISO 14001

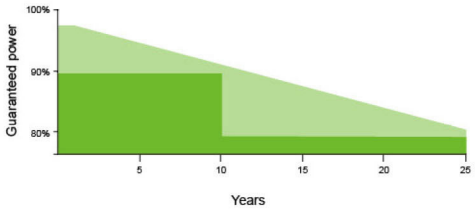
WARRANTIES

10 years for product defects in materials & workmanship

10 years for 90% of warranted minimum power output

25 years for 80% of warranted minimum power output

25 years linear warranty



QUALITY DESIGN | GREAT DURABILITY | EASY INSTALLATION

M60PCS 310W/305W/300W/295W/290W/285W/280W

PRODUCT SPECIFICATION

Electrical parameters at standard test conditions
(STC:AM=1.5, 1000W/m², Cells Temperature 25℃)

Typical type	310W	305W	300W	295W	290W	285W	280W
Max power(Pmax)	310	305	300	295	290	285	280
Max power voltage(Vmp)	33.1	32.9	32.6	32.5	32.44	31.8	31.7
Max power current(Imp)	9.37	9.28	9.19	9.08	8.94	8.97	8.84
Open circuit voltage(Voc)	40.4	40.2	39.8	39.6	39.11	38.5	38.4
Short circuit current(Isc)	9.81	9.72	9.77	9.68	9.54	9.51	9.42
Module Efficiency(%)	19.05	18.75	18.30	18.13	17.82	17.52	17.21
Max system voltage	DC 1000V(TUV)						
Maximum Series Fuse Rating	15A						

Mechanical Data

Dimensions	1640×992×35mm
Weight	18kgs
Front glass	3.2 mm tempered glass
Output cables	4 mm² symmetrical lengths 900 mm
Connectors	MC4 compatible IP67
Cell type	5BB Mono Crystalline Silicon 156.75mmx156.75mm 5BB
Number of cells	60 cells in series

Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.05% / K
Temp.Coeff.of Voc(TK Voc)	(-0.29%) %/ K
Temp.Coeff.of Pmax(TK Pmax)	(-0.39%) %/ K
Operating temperature	(-40~+85%) ℃
Normal operating cell temperature	45±2℃

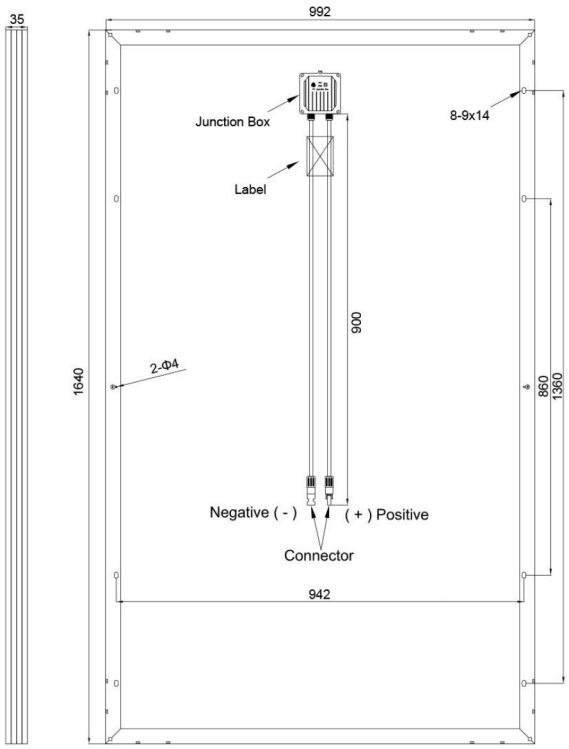
Packing Configuration

Container	20'GP	40'GP	40'HQ
Pieces per pallet	52	52	60
Pallets per container	6	14	14
Pieces per container	312	728	840

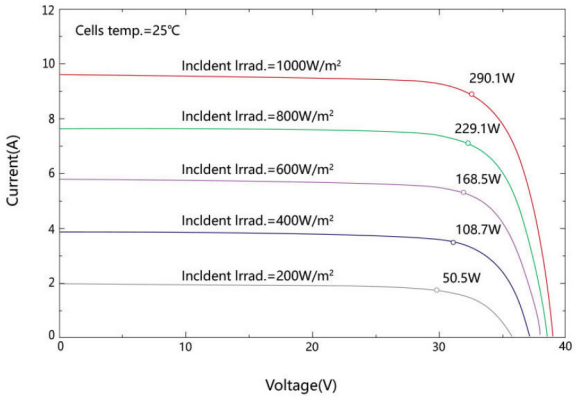
Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001
Certifications	TUV,MCS,CHUBB
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Positive tolerance	0~±3%
Junction box	IP67
Warranties	10 years product warranty and 25 years 80% of power

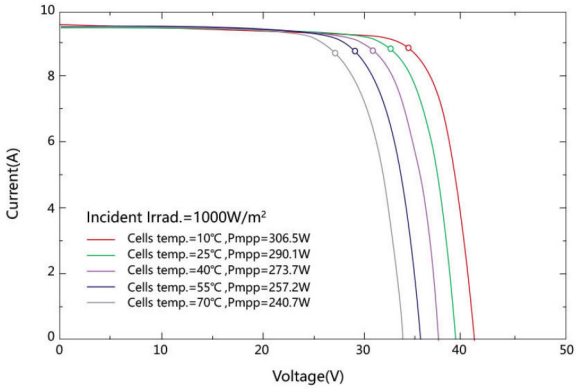
Dimensions and Structure



I-V Curve



I-V Curves at different irradiance



I-V Curves at different temperature