



SR-M660 Black Series 280W~310W Mono Module

Module Type

SR-M660280 SR-M660300 (PERC)

SR-M660285 SR-M660305 (PERC)

SR-M660290 SR-M660310 (PERC)

WARRANTY

12years Defect warranty
25years Leading linear performance warranty

■ 25 year linear performance warranty from SUNRISE
■ Standard performance warranty

Additional value from SUNRISE's linear warranty



Established in 2006, Sunrise Energy Co., Ltd specializes in research, development, and sales of solar PV modules in early stage, and is one of the first PV companies which involved in solar project investment and solar system integration. Our business scope covers solar project investment, EPC, project design, installation, operation and maintenance, solar products manufacturing and sales as well.

Sunrise has 35,000m² automatic workshops with 600MW annual capacity which strongly support its exploring business abroad. Sunrise has 8 offices worldwide. Sunrise has been built up long term business relationship with many well-known companies. We have been invested and built over 600MW solar projects worldwide and supplied high efficient and green solar power solution over 50 countries, such as German, Italy, Australia, Japan, India, America and China.



0~3% Positive tolerance



PID-free



3.2mm high transmission, low iron tempered AR glass



Better performance under low light environment



Withstand wind loads up to 2400Pa and snow loads up to 5400Pa.



25 year leading linear performance warranty



IEC 61215 / IEC 61730
ISO 9001: 2008

ISO14001: 2004
OHSAS 18001: 2007

60 Cells Mono Module

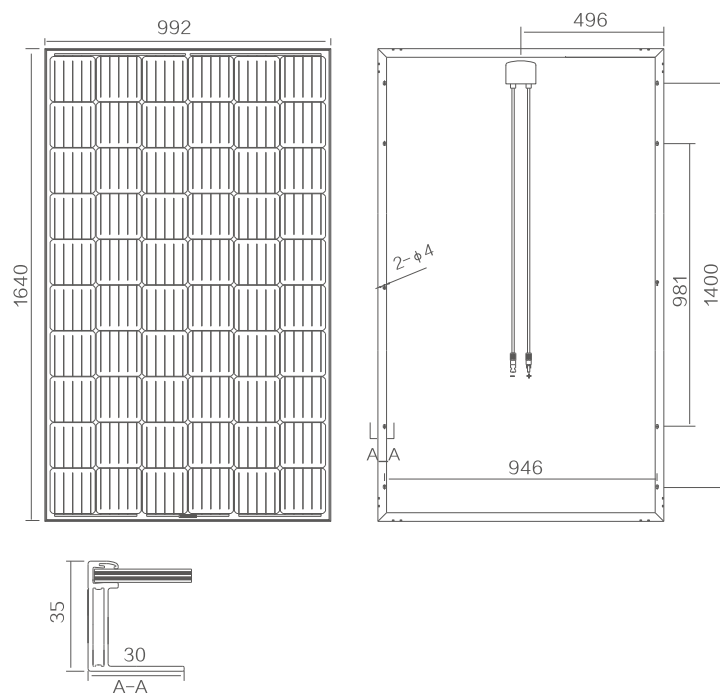


Module Type		SR-M660280		SR-M660285		SR-M660290		SR-M660300 (PERC)		SR-M660305 (PERC)		SR-M660310 (PERC)	
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Tolerance	(%)	0~+3		0~+3		0~+3		0~+3		0~+3		0~+3	
Module Efficiency	(%)	17.1		17.4		17.7		18.3		18.7		19.1	
Maximum Power	P _{max} (W)	280	205.8	285	209.5	290	213.2	300	220.5	305	224.2	310	228.5
Open Circuit Voltage	V _{oc} (V)	38.76	35.6	38.86	35.7	38.96	35.9	39.13	37.2	39.24	37.2	39.36	41.43
Short Circuit Current	I _{sc} (A)	9.47	7.61	9.59	7.73	9.73	7.82	10.02	7.93	10.16	8.02	10.29	8.11
Maximum Power Voltage	V _m (V)	31.34	28.8	31.42	28.9	31.5	29.1	31.64	30.1	31.73	30.2	31.83	30.4
Maximum Power Current	I _m (A)	8.94	7.17	9.08	7.24	9.21	7.32	9.49	7.31	9.62	7.38	9.74	7.45
Cell Type	(mm)	156×156 Mono-Crystalline Silicon											
Number of Cells	(Pcs)	60(6×10)											
Maximum System Voltage	(V)	DC1000											
Temp. Coeff. of V _{oc}	(%/°C)	-0.35											
Temp. Coeff. of I _{sc}	(%/°C)	0.05											
Temp. Coeff. of P _m	(%/°C)	-0.45											
Operating Temperature	°C	-40 to 85											
Nominal Operating Cell Temperature (NOCT)	°C	45±2											
Max. Series Fuse	(A)	15											
Pressure Bearing	(Pa)	5400											
Wind Bearing	(Pa)	2400											

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1m/s

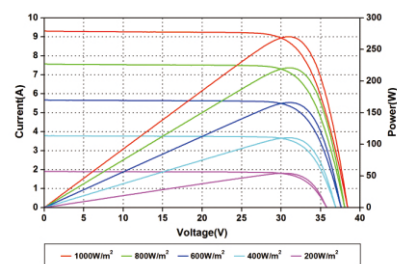
ENGINEERING DRAWINGS



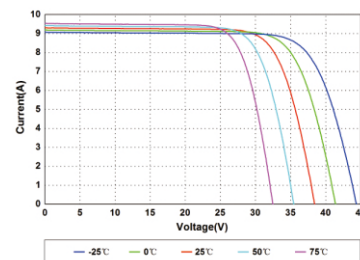
MATERIAL DETAILS

Frame	Anodized aluminum
Glass	3.2mm high transmission tempered AR glass
Cell	6×10 pcs 156.75mm mono solar cell
Junction Box	Rated Current≥13A, IP≥67, TUV&UL
Cable&Connector	4mm ² , MC4 or MC4 compatible

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

PACKING DETAILS

Dimension	(mm)	1640×992×35
Weight	(kg)	18.2
Loading Capacity	324 pcs/20' GP 840 pcs/40' HC	
Packing	pcs/pallet	30