



## Sunrise - PV modules:

Mono Black 280WP / 290WP / 300WP

### Strengths:

- Tolerance 0~+3%
- High transmission, low iron tempered glass
- Plug&Play connectors
- Bypass diodes protection
- Salt mist test and ammonia resistance test

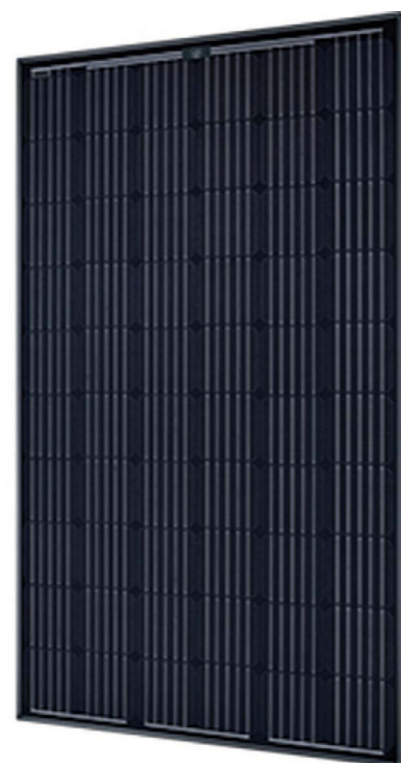
### Warranty:

- Manufacturing 12 Years
- Power Production:  
95%: 5 years    90%: 12 years  
85%: 18 years    80%: 25 years

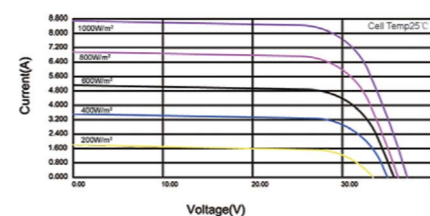
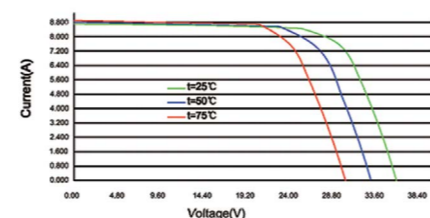
### Insurance:



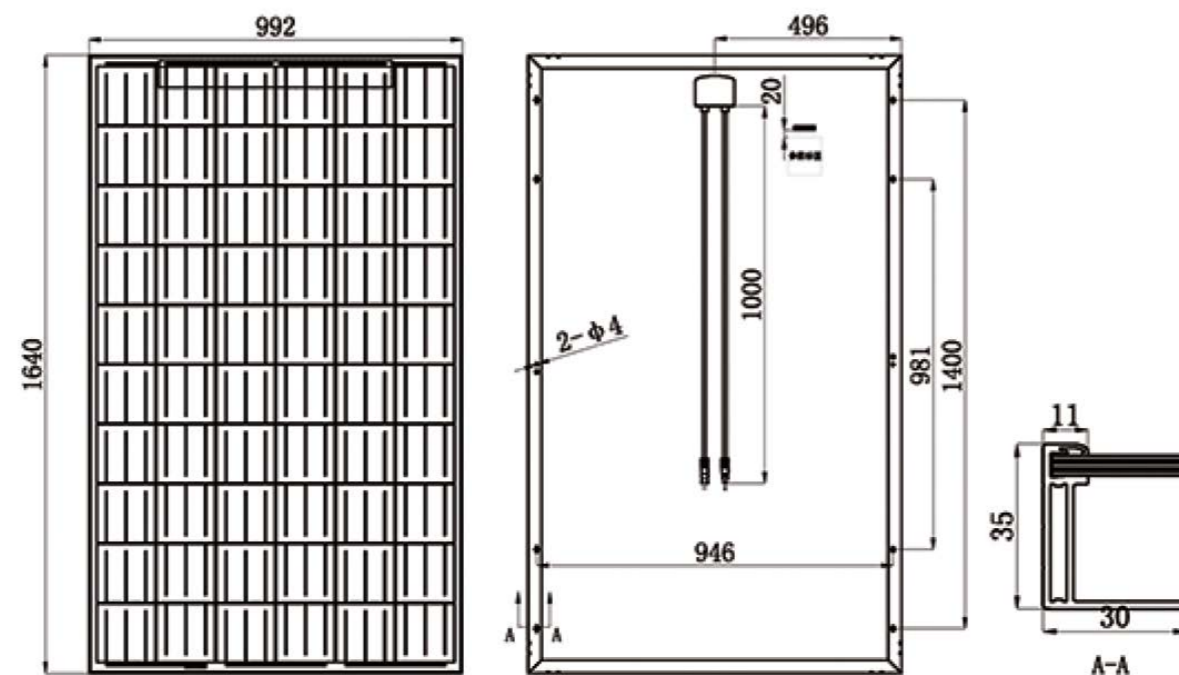
### Certificates:



### Electrical charts:



### Physical characteristics and specifications:



Specifications:	SR-M660280	SR-M660290	SR-M660300
Maximum power Pm(W)	280 Wp	290 Wp	300 Wp
Maximum power voltage Vm(V)	31,34 V	31,50 V	31,64 V
Maximum power current Im(A)	8,94 A	9,21 A	9,49 A
Open circuit voltage Voc(V)	38,76 V	38,96 V	39,13 V
Short circuit current Isc(A)	9,47 A	9,73 A	10,02 A
Module efficiency	17,24%	17,85%	18,47%
Operating temperature	-40 to 85 °C		
Maximum system voltage	DC1000		
Maximum series fuse	15 A		
Tolerance	0~+3 %		
Temperature coefficients of Pmax	-0,45 %/°C		
Temperature coefficients of Voc	-0,35 %/°C		
Temperature coefficients of Isc	0,05 %/°C		
Nominal operating cell temperature (NOCT)	45 ± 2 °C		
Cell type	156x156 mm (Mono-Crystalline Silicon)		
Number of cells	60 (6x10) pieces		
Solar cell efficiency	19,83%	20,53%	21,24%
Weight module	18,2 kg		
Measurement module	1640x992x35 mm		
Maximum wind bearing	3800 Pa		
Maximum pressure bearing	5400 Pa		
STC (Standard Testing Conditions): Irradiation level 1000 W/m² AM=1,5 module temperature 25 °C			

Art. number:	Product details	Price:
991105608	Solar PV Module Sunrise Black Mono 280WP SR-M660280-B	Upon request
991105610	Solar PV Module Sunrise Black Mono 290WP SR-M660290-B	Upon request
991105624	Solar PV Module Sunrise Black Mono 300WP SR-M660300-B	Upon request