

MONO-CRYSTALLINE MODULE

ECS-270/275/280/285/290/295/300M60 All-black



High conversion efficiency



Extremely environmental testing



Salt mist corrosion resistant



IP67 Junction box



Strong compressive strength



Fire test approved



PID Resistant

GIVING YOU MORE



3% positive tolerance



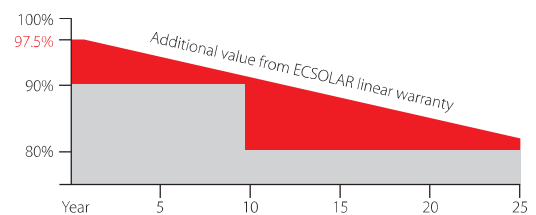
Series of internal harsh tests



Authorised photovoltaic certificates



Linear performance warranty



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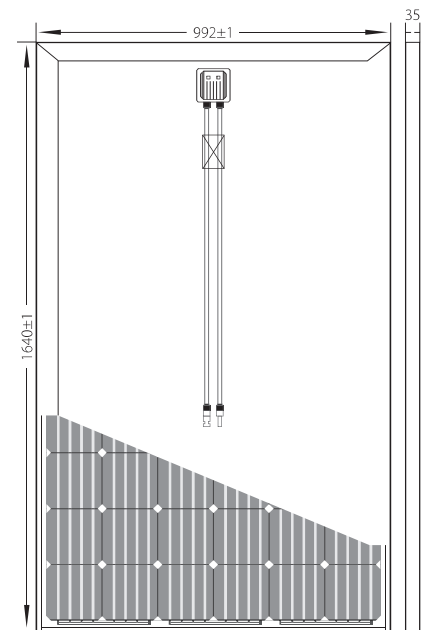
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Electrical Characteristics under STC*

Module Type	ECS-270M60	ECS-275M60	ECS-280M60	ECS-285M60	ECS-290M60	ECS-295M60	ECS-300M60
Maximum Power-Pmax (Wp)	270	275	280	285	290	295	300
Voltage at Maximum Power-Vmp (V)	31.5	31.9	32.3	32.7	33.1	33.5	33.9
Current at Maximum Power-Imp (A)	8.57	8.62	8.67	8.72	8.76	8.81	8.86
Open Circuit Voltage-Voc (V)	38.5	38.9	39.3	39.8	40.2	40.6	41.0
Short Circuit Current-Isc (A)	9.35	9.43	9.50	9.55	9.62	9.75	9.83
Module Efficiency-ηm (%)	16.6	16.9	17.1	17.5	17.8	18.0	18.3
Power Tolerance (%)	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3

Mechanical Characteristics

Cell Type	Mono-crystalline	156×156 mm (6 inches)
Number of Cells	60 (6×10)	
Dimension	1640×992×35 mm (64.57×39.06×1.38 inches)	
Weight	20.0 kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	



Temperature Characteristics

NOCT*	45±2°C
Temperature Coefficient of Pmax (%)	-0.40/°C
Temperature Coefficient of Voc (%)	-0.31/°C
Temperature Coefficient of Isc (%)	0.04/°C

Maximum System Ratings

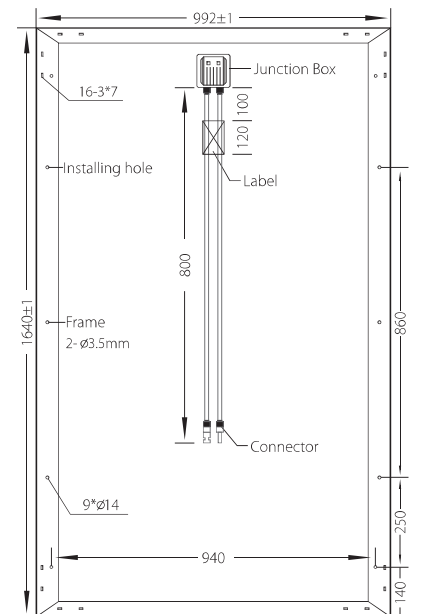
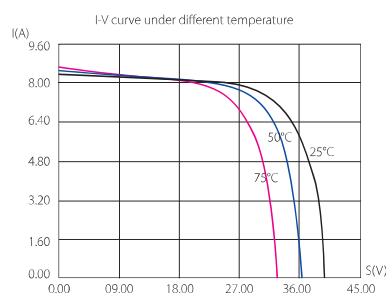
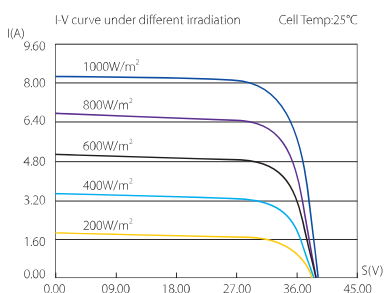
Operating Temperature	-40°C to +80°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	16A

Warranty

12 years product warranty

12 years warranty on 90% power output

25 years warranty on 80% power output



*STC (Standard Testing Conditions): Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5
ambient temperature 20 °C, wind speed 1 m/s

*NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s
The specifications in this datasheet are subjected to change without prior notice