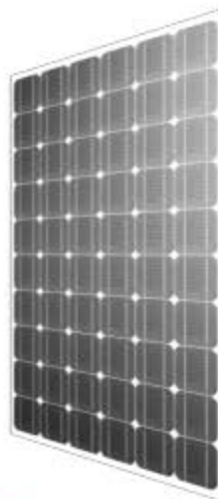


Solar Panel M290-60-w GG

Meets highest aesthetic requirements
Laminated safety glass for over head glazing and facades
Lifespan of over 50 years due to glass to glass technology
Technology developed in Switzerland
Monkey run safe
Heavy snow load proof
Easy for maintenance as you can walk on it
No tariff and trade restrictions to any country



Electrical data STC

Nominal Power (Pmpp)	290 Wp
Nominal voltage (Umpp)	32.0 V
Nominal current (Impp)	9.07 A
Open circuit voltage (Uoc)	38.7 V
Short circuit current (Isc)	9.42 A
Cell efficiency	0.206
Module efficiency	0.1786
Power sorting	-0 / +5 %

STC (Standard testing conditions): Irradiance 100 W/m², cell temperature 25°C, AM 1.5

Measuring tolerances +/- 3% (Pmpp); +/- 10% (Umpp, Impp, Uoc, Isc)

Electrical data at partial load	800 W/m²
Nominal Power (Pmpp)	219 Wp
Nominal voltage (Umpp)	29.6 V
Nominal current (Impp)	7.39 A
Open circuit voltage (Uoc)	36.3 V
Short circuit current (Isc)	7.33 A

Measuring tolerances +/- 5% (Pmpp); +/- 10% (Umpp, Impp)

Thermal Properties

Nominal operating cell temperature (NOCT)	45 +/- 2°C
Temperature coefficient Uoc	-0.26 %/°C
Temperature coefficient Isc	+ 0.031 %/°C
Temperature coefficient Pmpp	-0.37 %/°C

Operating conditions

Temperature range	-40°C - +85°C
Max system voltage	1000V optional 1500V
Max reverse current	20A
Max string fuse	16A
Max load IEC/EN 61215	13000 N / m ²
Hail resistance protection class 4	Ø 40mm at 23m/s
Application class IEC / EN 61730	A
Fire protection	Top and back layer heat resistant glass
Protection class	II
Salt mist test	IEC/EN 61701 I+II
Ammonium corrosion test	IEC/EN 62716

General Data

Laminate structure	Glass to Glass
Cell type	Monocrystalline
Cell Size	156.75mm x 156.75mm
Number of cells	60
Colour between cells	white
Frame	none
Front side	3.2mm/2.5mm

anti reflective solar glass tempered

Encapsulation material
Back side

Special EVA / POE
3.2mm /2.5mm

solar glass tempered

Junction box
Cable cross section
Connectors
Dimensions (+ - 3mm)
Weight

3 bypass diodes IP 67
4mm²
MC 4 compatible, IP 67
1634 x 986 x 8mm
28.2 kg/22 kg

Quality and warranty

Quality characteristics

PID free

(Potential Induced Degradation)

Product warranty

10 years

Linear performance warranty

35 years

Relative efficiency level in relation to minimal output (%). At least 97% after the first year.

Afterwards max 0.5% degradation p.A. At least 92.5% after 10 years.

At least 85% after 25 years. At least 80% after 35 years.

Origin

Made in Sri Lanka

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