

LS285

Monocrystalline Photovoltaic Module

Uniform performance and stability under a range of light conditions

Applications

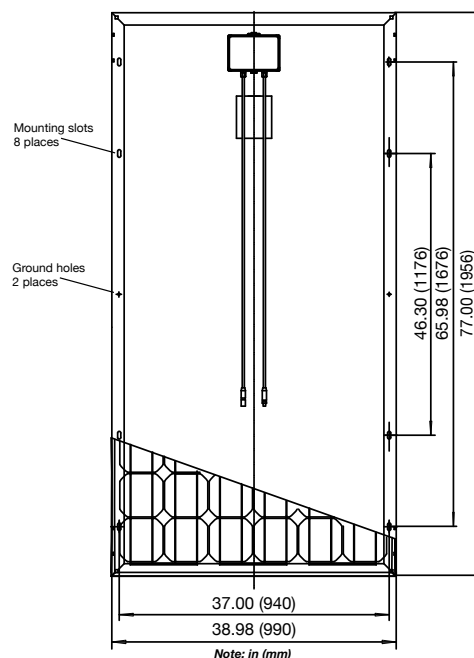
On-grid Residential systems
On-grid Commercial Systems
On-grid Utility systems

Features

72 mono crystalline CSUN Selective Emmitter Solar Cells
17.50% cell efficiency
Performance deviation of +/- 3%
Low degradation under high irradiance conditions
Low cell mismatch rate
Anodized aluminum alloy frame, black or clear

Electrical Specifications

Model	LS 285 - 72M
Rated Power @ STC	285 W
CEC Power @ PTC	258 W
Nominal Voltage	24 V
Open Circuit Voltage (Voc)	44.40 V
Short Circuit Current (Isc)	8.59 A
Peak Power Voltage (Vmp)	35.70 V
Maximum Power Current (Imp)	7.99 A
Operating Temperature	-40 °C to 85 °C
Max System Voltage (UL / IEC)	600 V / 1000 V
Max Series Fuse Rating	20 A
Power Tolerance	±3%
Cell Efficiency	17.5 %
Power Density	13.67 W/ft ²

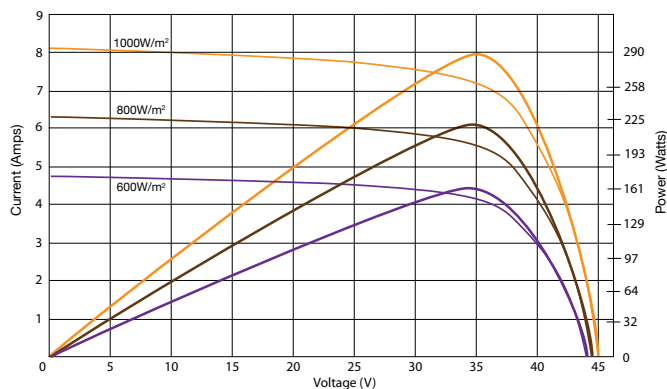


Mechanical Specifications

Solar Cell	Mono-crystalline 6" x 6" (156mm x 156mm)
Number of cells	72 (6 x 12)
Internal Bypass Diodes	6
Module Dimensions	77.00" x 38.98" x 1.97" (1956mm x 990mm x 50mm)
Module Area	20.84 ft ² (1.94 m ²)
Module Weight	52.47 lbs (23.8 kg)
Front Glass	.13" (3.2mm) tempered glass
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Frame	Anodized Black / Clear Aluminium Alloy
Output Cables	12 Awg. 35.4" (900 mm) MC4 Connectors
Static Load	113 PSF (5400 Pa)
Hail	Maximum Diameter 1" (25mm) at 52 mph (23 m/s)
Warranty	10 years at 90% of the rated power output, 25 years at 80% of the rated power output
Certifications	Safety Class II, CE, UL 1703, IEC 61215, IEC 61730-1/2

Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	113 °F (45 °C)
Temperature Coefficient of Pmp	-0.423 % / °C
Temperature Coefficient of Voc	-0.136 V / °C
Temperature Coefficient of Isc	3.350 mA / °C



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