

LS250 Series

Monocrystalline Photovoltaic Modules

Uniform performance and stability under a range of light conditions

Applications

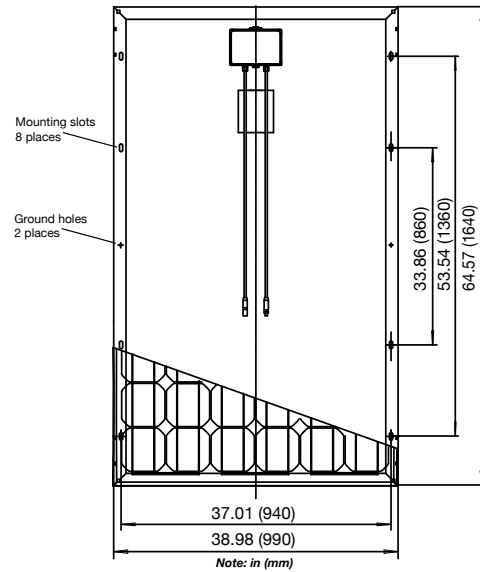
On-grid Residential Systems
On-grid Commercial Systems
On-grid Utility Systems

Features

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

Mechanical Specifications

Solar Cell	Monocrystalline 6" x 6" (156mm x 156mm)
Number of Cells	60 (6 x 10)
Internal Bypass Diodes	6
Module Dimensions	64.57" x 38.98" x 1.97" (1640mm x 990mm x 50mm)
Module Area	17.48 ft ² (1.62 m ²)
Module Weight	43.65 lbs (19.8 kg)
Front Glass	.13" (3.2mm) Tempered Glass
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Frame	Anodized Black / Clear Aluminum Alloy
Output Cables	12 Awg. 35.4" (900mm) PV Wire with MC4 Connectors
Static Load	113 PSF (5400 Pa)
Hail	Maximum Diameter 1" (25mm) at 52 mph (23 m/s)
Certifications	Safety Class II, CE, UL 1703, IEC 61215, IEC 61730-1/2
Warranty	10 years at 90% of the rated power output 25 years at 80% of the rated power output



Electrical Specifications

Model	LS 235 - 60M	LS 240 - 60M	LS 245 - 60M	LS 250 - 60M
Rated Power @ STC	235 W	240 W	245 W	250 W
CEC Power @ PTC	212.6 W	217.3 W	221.9 W	226.6 W
Nominal Voltage	24 V	24 V	24 V	24 V
Open Circuit Voltage (Voc)	36.8 V	37.0 V	37.2 V	37.3 V
Short Circuit Current (Isc)	8.54 A	8.62 A	8.69 A	8.78 A
Peak Power Voltage (Vmp)	29.6 V	29.8 V	30 V	30.1 V
Maximum Power Current (Imp)	7.94 A	8.06 A	8.17 A	8.31 A
Operating Temperature	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C	-40 °C to 85 °C
Max System Voltage (UL / IEC)	600 V / 1000 V	600 V / 1000 V	600 V / 1000 V	600 V / 1000 V
Series Fuse Rating	15 A	15 A	15 A	15 A
Power Tolerance	±3 %	±3 %	±3 %	±3 %
Cell Efficiency	17.5 %	17.75 %	18 %	18.25 %
Module Efficiency	14.47 %	14.78 %	15.09 %	15.49 %
Power Density	13.44 W/ft ²	13.73 W/ft ²	14.02 W/ft ²	14.3 W/ft ²

Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	113 °F (45 °C)
Power Temperature Coefficient	-0.423 % / °C
Voltage Temperature Coefficient	-0.307 % / °C
Current Temperature Coefficient	+0.039 % / °C

