

330W Monocrystalline Solar Panel

GS-M120-330W-FAB1



Overview

This Grape Solar 24V off-grid solar module is ideal for 24V/48V off-grid battery charging systems such as RVs, cabins, mini-homes, sheds, emergency back-up, and more.

- High conversion efficiency monocrystalline cells with long-term output stability and reliability.
- Outstanding electrical performance under high temperature and weak light environments.
- Rigorous quality control to meet the highest international solar panel standards.
- Built-in bypass diodes prevent reverse current flow and reduce shade losses.
- High-transmittance, low iron tempered glass with enhanced stiffness and impact resistance.
- Advanced encapsulation material with multi-layer sheet lamination to provide enhanced longevity and performance.



UL/CSA Rated Junction Box

Warranty

- 10 year limited product warranty
- 10 year limited 90% power output warranty
- 25 year limited 80% power output warranty

Refer to warranty document for details.

Mechanical Specifications

Cell Size	158.75 mm x 79.375 mm (6.25 in x 3.125 in)
Module Dimension	1690 mm x 996 mm x 35 mm (66.54 in x 39.21 in x 1.38 in)
Number of Cells	120
Weight	18kg (39.7 lbs.)
Mounting Hole	9 mm x 14mm / 0.35 in x 0.55 in
Cable Length	350 mm / 13.8 in
Type of Connector	TS4 (compatible with MC4)
Junction Box	IP68
Rated Snow / Wind Load	5400 Pa positive load/2400 Pa negative load

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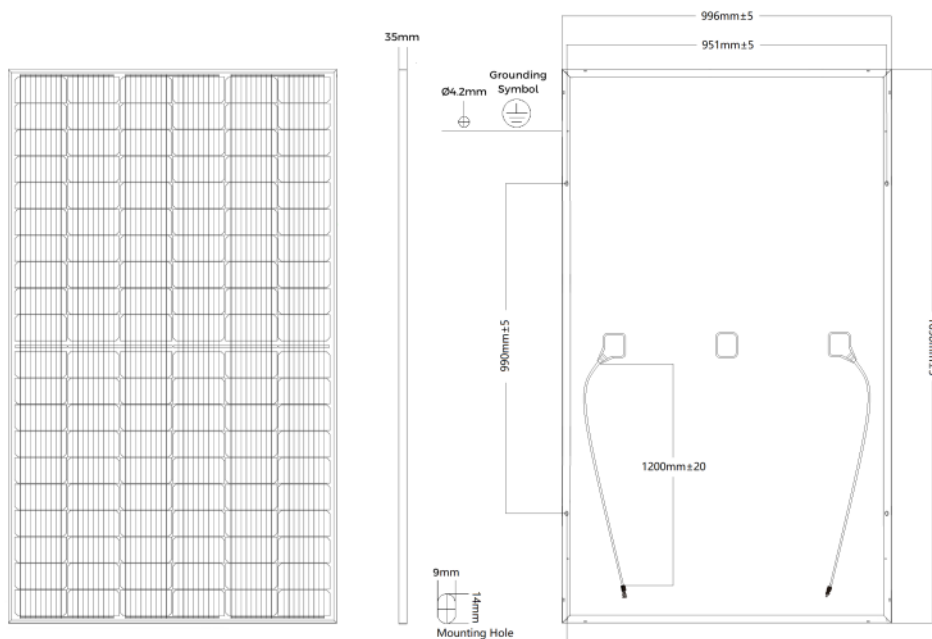


Electrical Specifications

Max System Voltage	1000V
Maximum Power P_{max}	330 W (0%,+3%)
Voltage at Maximum Power Point V_{mpp}	33.8 V
Current at Maximum Power Point I_{mpp}	9.76 A
Open Circuit Voltage V_{oc}	40.6 V
Short Circuit Current I_{sc}	10.40 A
Operating Temperature	-40°C to +85°C
Normal Operating Cell Temperature	45°C
Temperature Coefficient of V_{oc}	-0.26%/°C
Temperature Coefficient of I_{sc}	+0.04%/°C
Temperature Coefficient of P_{max}	-0.36%/°C
Max Series Fuse Rating	20 A

(Standard Test Conditions: 25°C, 1000W/m² irradiance, AM=1.5)

Schematics



*Diagram not strict to scale.

Grape Solar reserves the right to modify these specifications without notice.

For service or support call
1-541-349-9000



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