



RNG-310P

310W Polycrystalline Solar Panel

Key Features

The Renogy 310 Watt 24 Volt Polycrystalline Solar Panel is the first step to converting your house from an energy dependent home to a energy producing location.

- High module conversion efficiency
- Top ranked PTC rating
- Quick and inexpensive mounting
- 100% EL testing on all Renogy modules
- No hot spots guaranteed

Potential Uses

The Renogy 310 Watt Polycrystalline Panel can be primarily used in on-grid applications that include multi-panel solar arrays.



Power Output Warranty



Material and Workmanship Warranty

RNG-310P

310W Polycrystalline Solar Panel

Electrical Data

Maximum Power at STC*	310 W
Optimum Operating Voltage (V_{mp})	36.3 V
Optimum Operating Current (I_{mp})	8.55 A
Open Circuit Voltage (V_{oc})	45.2 V
Short Circuit Voltage (I_{sc})	9.07 A
Module Efficiency	15.97%
Maximum System Voltage	1000 V
Maximum Series Fuse Rating	15 A

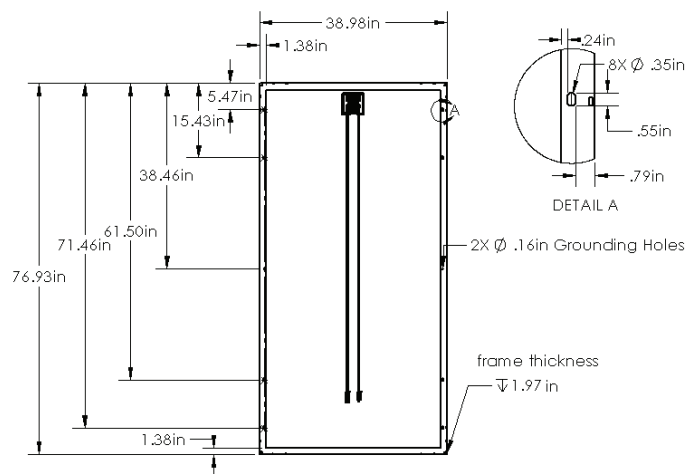
Thermal Characteristics

Operating Module Temperature	-40°C to +90°C
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.44%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.04%/°C

Junction Box

IP Rating	IP 68
Diode Type	JM 5039 THY 2550
Number of Diodes	4 Diode(s)
Output Cables	12 AWG (3.77 ft long)

Module Diagram



Mechanical Data

Solar Cell Type	Polycrystalline (6.14 x 6.14 in)
Number of Cells	72 (6 x 12)
Dimensions	77.2 x 39.0 x 2.0 in (1960 x 990 x 50 mm)
Weight	52.9 lbs (24 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	MC4 Connectors
Fire Rating	Class C

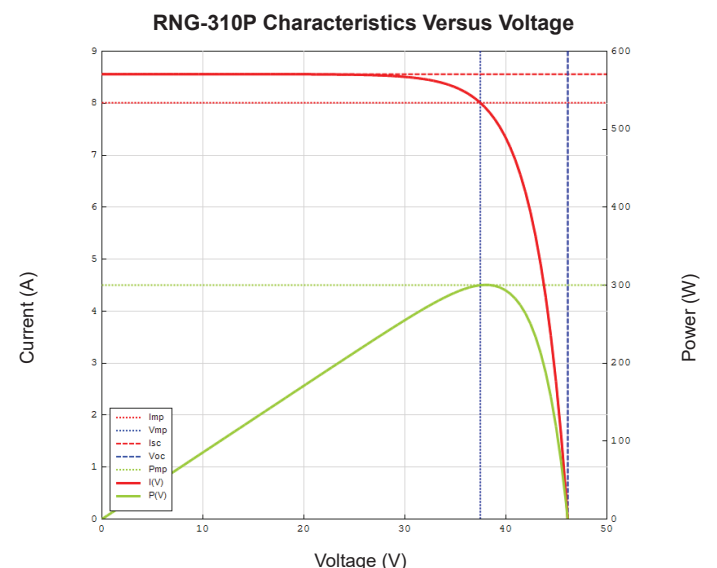
MC4 Connectors

Rated Current	30A
Maximum Voltage	1000VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°F to 194°F
IP Rating	IP 67

Certifications



IV-Curve



*All specifications and data described in this data sheet are tested under Standard Test Conditions (STC - Irradiance: 1000W/m², Temperature: 25°C, Air Mass: 1.5) and may deviate marginally from actual values. Renogy and any of its affiliates has reserved the right to make any modifications to the information on this data sheet without notice. It is our goal to supply our customers with the most recent information regarding our products. These data sheets can be found in the downloads section of our website, www.renogy-store.com



This manual is provided courtesy of **RV Tech Cheat Sheet**



Professional resources for the whole RV industry — free.

We put manuals, wiring diagrams and hard-won tech knowledge in every technician's hands, so repairs get done right the first time, techs work faster, and RV owners everywhere get better service.



rvtechcheatsheet.com/manuals

Find thousands more RV manuals, wiring diagrams and parts lists

RV techs: share fixes, ask questions and learn from each other.

Join our free Facebook group →



Follow proper safety practices. If in doubt, consult a professional RV technician.