The Renogy 270 Watt 24 Volt Polycrystalline Solar Panel is the first step to converting your house from an energy dependent home to a energy producing location.

The Renogy 270 Watt Polycrystalline Panel can be primarily used in on-grid applications that include multi-panel solar arrays.

**RNG-270P-G1**
270W Polycrystalline Solar Panel

**Key Features**
The Renogy 270 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 270 Watt Polycrystalline Panel can be primarily used in on-grid applications that include multi-panel solar arrays.

- **25 Years** Power Output Warranty
- **10 Years** Material and Workmanship Warranty

Renogy | www.renogy.com | customerservice@renogy.com | 909-287-7111
2775 E. Philadelphia St, Ontario, CA 91761
RNG-270P-G1
270W Polycrystalline Solar Panel

Electrical Data
Maximum Power at STC* 270 W
Optimum Operating Voltage (Vmp) 31.40 V
Optimum Operating Current (Imp) 8.60 A
Open Circuit Voltage (Voc) 38.60 V
Short Circuit Voltage (Isc) 9.03 A
Module Efficiency 16.60%
Maximum System Voltage 1000 VDC UL
Maximum Series Fuse Rating 15 A

Mechanical Data
Solar Cell Type Polycrystalline (6.14 x 6.14 in)
Number of Cells 60 (6 x 10)
Dimensions 64.57 x 39.06 x 1.57 in (1640 x 992 x 40 mm)
Weight 41.3 lbs (18.7 kg)
Front Glass Tempered Glass 0.13 in (3.2 mm)
Frame Anodized Aluminium Alloy
Connectors MC4 Connectors
Fire Rating Type 2

Thermal Characteristics
Operating Module Temperature -40°C to +90°C
Nominal Operating Cell Temperature (NOCT) 47±2°C
Temperature Coefficient of Pmax -0.40%/°C
Temperature Coefficient of Voc -0.30%/°C
Temperature Coefficient of Isc 0.06%/°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

Junction Box
IP Rating IP 67
Diode Type SB3050DY
Number of Diodes 3 Diode(s)
Output Cables 12 AWG (2.98 ft long)

Certifications

Module Diagram

IV-Curve

*RNG-270P-G1 Characteristics Versus Voltage

*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.com