

# RNG-160DB-H

## 160W Flexible Monocrystalline Solar Panel

### Key Features

The Renogy 160 Watt 12 Volt Flexible Monocrystalline Solar Panel is the most convenient panel to convert your house from an energy dependant home to an energy producing location.

- Extreme flexibility, bend up to 248 degrees
- Ultralight and extremely durable design
- Quick and inexpensive mounting
- Ultra thin lamination
- No hot spots guaranteed

### Potential Uses

The Renogy 160 Watt Flexible Monocrystalline Panel can be primarily used on off-grid applications that include rooftop, RV, boats and any curvy surfaces.

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### Electrical Data

Maximum Power at STC*	160 W
Optimum Operating Voltage ( $V_{mp}$ )	19.1 V
Optimum Operating Current ( $I_{mp}$ )	8.38 A
Open Circuit Voltage ( $V_{oc}$ )	23.0V
Short Circuit Current ( $I_{sc}$ )	8.88 A
Module Efficiency	21.0%
Maximum System Voltage	600 VDC (IEC)
Maximum Series Fuse Rating	20 A

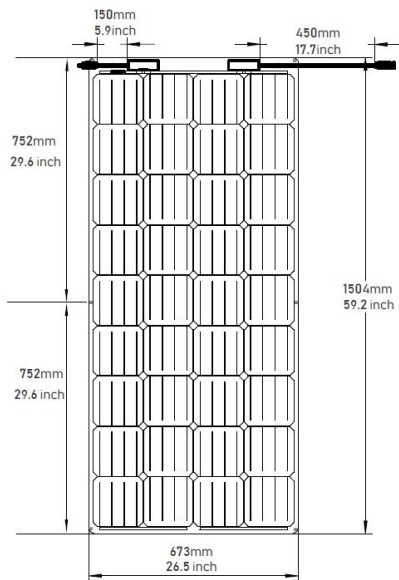
### Thermal Characteristics

Operating Module Temperature	-40°C to +85°C
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.42%/°C
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	0.05%/°C

### Junction Box

IP Rating	IP 68
Number of Diodes	2 Diode(s)
Output Cables	12 AWG (Negative length: 450mm, 17.7 in.) Positive length: 150mm, 5.9 in.)

### Module Diagram



### Mechanical Data

Solar Cell Type	Monocrystalline (6.14 x 6.14 in)
Number of Cells	36 (4 x 9)
Dimensions	59.2 x 26.5 x 0.08 in (1504 x 673 x 2 mm)
Weight	6.2 lbs (2.8 kg)
Application Class	Class A
Frame	None
Connectors	MC4 Connectors
Fire Rating	Class C

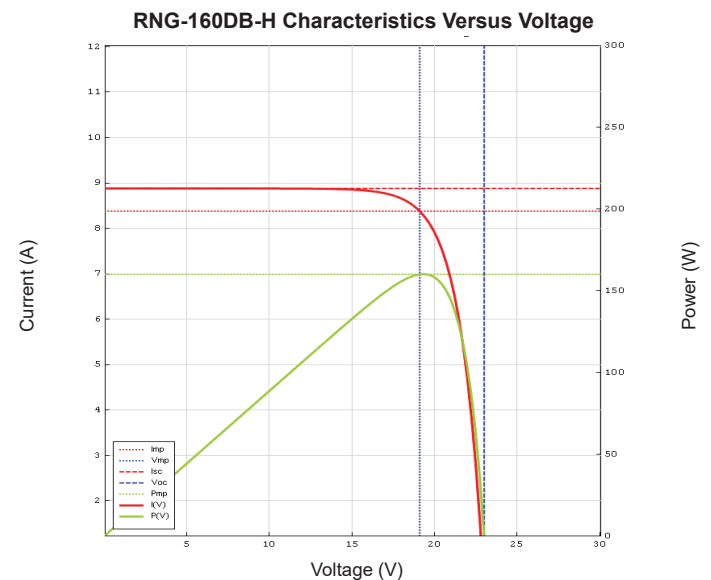
### MC4 Connectors

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/m<sup>2</sup>, 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](http://www.renogy.com)