



RNG-10D-SS

10W Monocrystalline Solar Panel

Key Features

Sleek, lightweight, and durable; the Renogy 10 Watt 12 Volt Monocrystalline panel is small enough to store and tow but powerful enough to charge your favorite electronics.

- 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 10W Monocrystalline Panel can be used in various off-grid applications that include 12 and 24 volts arrays, security systems, signaling systems and other off-grid applications.



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Electrical Data

Maximum Power at STC*	10 W
Optimum Operating Voltage (V _{mp})	18 V
Optimum Operating Current (Imp)	0.56 A
Open Circuit Voltage (V _{oc})	21.6 V
Short Circuit Voltage (Isc)	0.61 A
Module Efficiency	11.0 %
Maximum System Voltage	600 VDC
Maximum Series Fuse Rating	15 A

Thermal Characteristics

Operating Module Temperature	-40°C to +85°C
Nominal Operating Cell Temerature (NOCT) 47±2°C
Temperature Coefficient of Pmax	-0.23%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.05%/°C

Mechanical Data

Solar Cell Type	Monocrystalline (6.1 x 0.5 in)
Number of Cells	32 (2 x 16)
Dimensions	10.5 x 13.4 x 1.0 in (266 x 341 x 25 mm)
Weight	2.4 lbs (1.1 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Black Anodized Aluminum Alloy
Connectors	Bare Wire
Fire Performance	Type 1

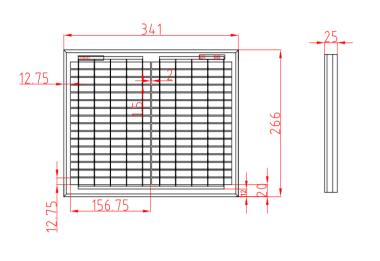
MC4 Connectors

None

Junction Box

IP Rating	IP 65
Diode Type	1N5822
Number of Diodes	1 Diode(s)
Output Cables	18 AWG (78.7 in)

Module Diagram

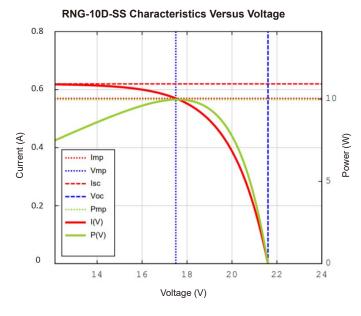


Certifications



USO 9001: Quality Management System

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.com