RENOGY



RSP100D-BK

100W Monocrystalline Solar Panel

Key Features

Sleek design and a durable frame, the Renogy 100 Watt 12 Volt Monocrystalline Panel provides you with the highest efficiency per area and is the perfect item for off-grid applications.

- 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 100 Watt Monocrystalline Panel can be used in various off-grid applications that include 12 and 24 volts arrays, water pumping systems, signaling systems and other off-grid applications.

25 Years — Power Output Warranty

5 Years — Material and Workmanship Warranty

Renogy | www.renogy.com | support@renogy.com | 909-287-7111
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Electrical Data

Maximum Power at STC*	100 W
Open Circuit Voltage (V_{oc})	24.3 V
Short Circuit Current (I_{sc})	5.39 A
Optimum Operating Voltage (V_{mp})	20.3 V
Optimum Operating Current (I_{mp})	4.93 A
Module Efficiency	17.9%
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	15 A

Mechanical Data

Solar Cell Type	Monocrystalline (6.25 x 3.4 in)
Number of Cells	36 (3 x 12)
Dimensions	43.3 x 20 x 1.4 in (1100 x 509 x 35mm)
Weight	14.5 lbs (6.6 kgs)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Black Anodized Aluminum Alloy
Connectors	Solar Connectors
Fire Rating	Class C

Thermal Characteristics

Operating Module Temperature	-40°F to 194°F
Nominal Operating Cell Temerature (NOCT)	47±2ºC
Temperature Coefficient of Pmax	- 0.37%/ºC
Temperature Coefficient of Voc	- 0.28%/ºC
Temperature Coefficient of Isc	0.048%/ºC

Solar Connectors

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

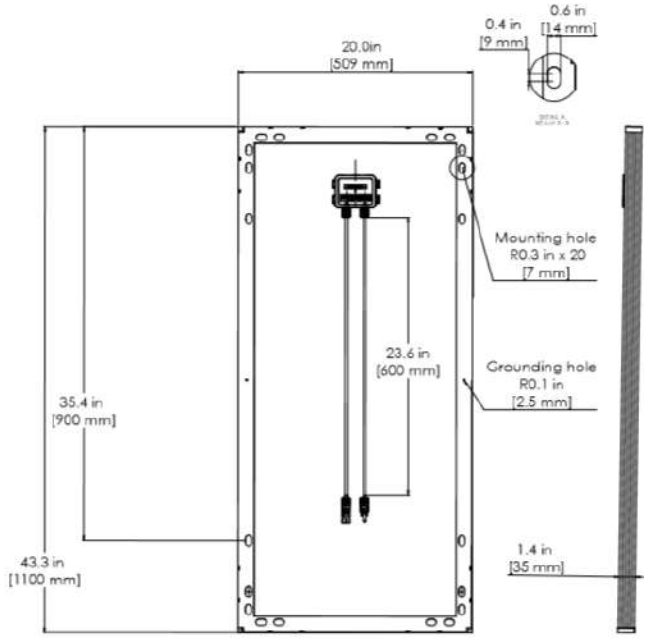
Junction Box

IP Rating	IP 65
Diode Type	15SQ045
Number of Diodes	2 Diode(s)
Output Cables	14 AWG (2.00 ft long)

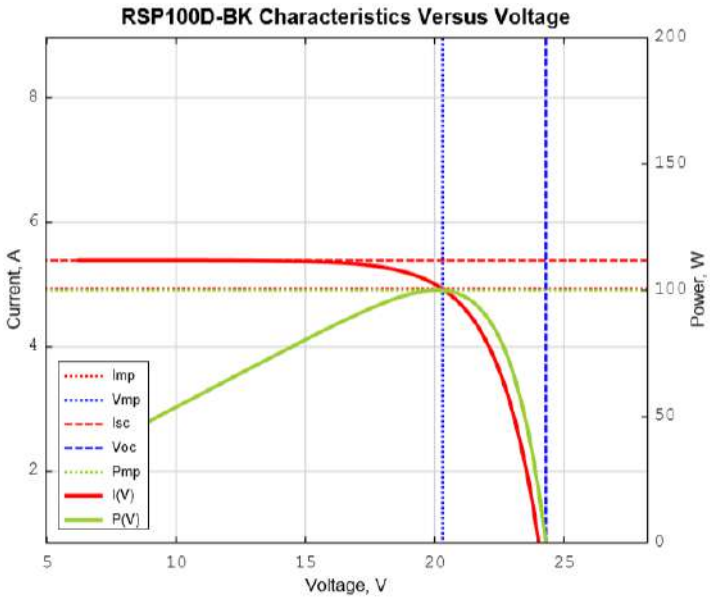
Certifications

Module Application: Class A
Quality Control Verified

Module Diagram



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

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