

RSP100DL-36

100W Lightweight Monocrystalline Solar Panel

Key Features

The Renogy 100-Watt Lightweight Monocrystalline Solar Panel achieves compact thickness and extreme lightweight. This solar panel features high efficiency (PERC) monocrystalline silicon solar cells. This product promotes renewable energy deployment.

- Extremely lightweight
- Reliable quality and durable design
- Quick and inexpensive mounting
- Ultra thin lamination
- No hot spots guaranteed

Potential Uses

The Renogy 100-Watt Lightweight Solar Panel is primarily designed for off-grid solar power systems in transportation applications. Applications include power systems in residential rooftops, RVs, boats, van conversions, and weight sensitive structures.



Power Output Warranty



Material and Workmanship Warranty

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Electrical Data

Maximum Power at STC*	100 W
Optimum Operating Voltage (V_{mp})	19.4 V
Optimum Operating Current (I_{mp})	5.20 A
Open Circuit Voltage (V_{oc})	23.5 V
Short Circuit Voltage (I_{sc})	5.51A
Module Efficiency	15.7 %
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	15 A

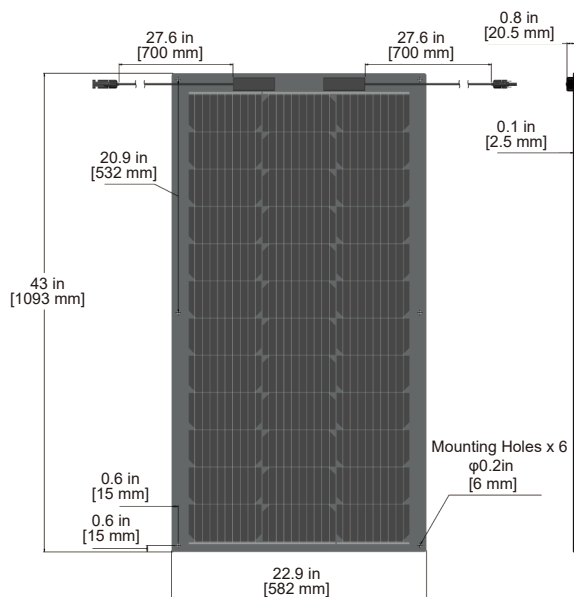
Thermal Characteristics

OperatingTemp.Range	-40°C-85°C(-40°F-185°F)
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	0.05%/°C

Junction Box

IP Rating	IP 67
Diode Type	HY 10SQ050
Number of Diodes	2 Diode(s)
Output Cables	12 AWG 700mm (27.6in)

Module Diagram



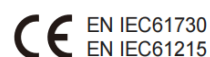
Mechanical Data

Solar Cell Type	PERC Monocrystalline (6.5 x 3.3 in)
Number of Cells	36 (3 x 12)
Dimensions	1093x 582 x 3 mm (43.0x22.9x0.1in)
Weight	2.4kg(5.3 lbs)
Application	Class II
Frame	None
Connectors	Solar Connectors
Fire Performance	Type 1

MC4 Connectors

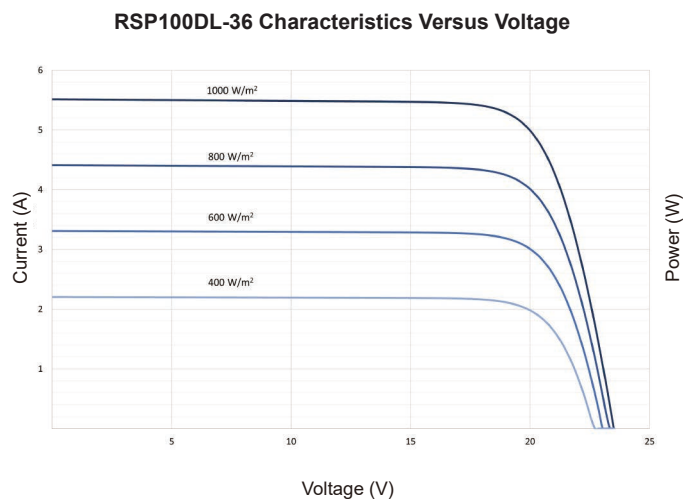
Rated Current	30A
Maximum Voltage	1500V DC
Maximum AWG Size Range	12 AWG
Temperature Range	- 40°C - 85°C(-40°F-185°F)
IP Rating	IP 67

Certifications



ISO 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