

# RSP100DL-36

## Black Division 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
Open Circuit Voltage ( $V_{oc}$ )	23.5 V
Short Circuit Current ( $I_{sc}$ )	5.51 A
Optimum Operating Voltage ( $V_{mp}$ )	19.4 V
Optimum Operating Current ( $I_{mp}$ )	5.20 A
Module Efficiency	15.9 %
Maximum System Voltage	600 VDC
Maximum Series Fuse Rating	15 A

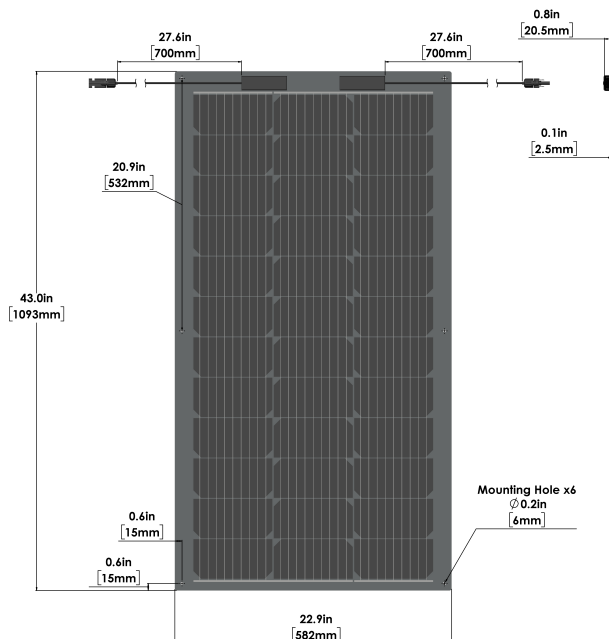
### Thermal Characteristics

Module Operating Temperature	-40°C to +80°C
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
Number of Diodes	2 Diode(s)
Output Cables	12 AWG, 2.3 ft

### Module Diagram



### Mechanical Data

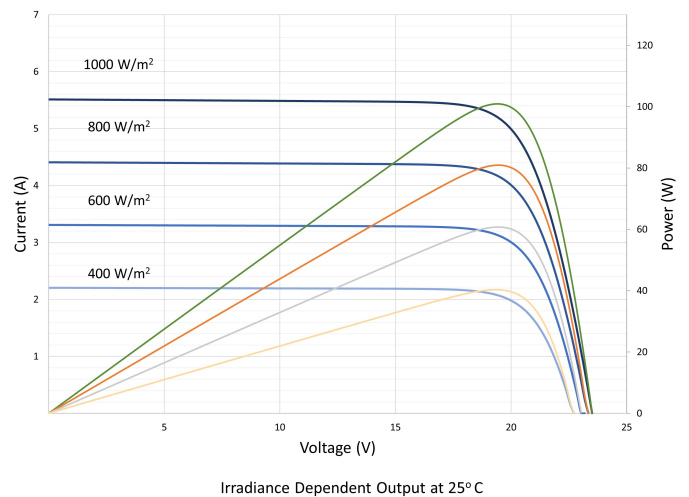
Solar Cell Type	PERC Monocrystalline (6.5 x 3.3 in)
Number of Cells	36 (12 x 3)
Dimensions	43 x 22.9 x 0.8 in (1093.0 x 582.0 x 20.5 mm)
Weight	5.3 lb (2.4 kg)
Application	Class II
Frame	None
Connectors	Solar Connectors
Fire Rating	Class A

### Solar Connectors

Rated Current	30 A
Maximum Voltage	1500 VDC
Maximum AWG Size	12 AWG
Operating Temperature	-40 °F to 185 °F
IP Rating	IP 67

### Certifications

### Electrical Performance



\*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)