



# RSP220DT

## Bifacial 220W Monocrystalline Solar Panel

### Key Features

The Bifacial 220W solar panels offer more power and durability. Corrosion-resistant aluminum frame. Larger cell size and conversion efficiency for more power output per surface area.

- 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 Bifacial 220W Monocrystalline Solar Panel has applications in off-grid power systems. That includes 12 and 24 volts battery banks, water pumping systems, signaling systems, and other off-grid applications.



Power Output Warranty



Material and Workmanship Warranty

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## Bifacial 220W Monocrystalline Solar Panel

### Electrical Data

Maximum Power at STC*	220 W
Optimum Operating Voltage ( $V_{mp}$ )	18.78 V
Optimum Operating Current ( $I_{mp}$ )	12.24 A
Open Circuit Voltage ( $V_{oc}$ )	21.86 V
Short Circuit Current ( $I_{sc}$ )	13.41 A
Module Efficiency	18.6%
Maximum System Voltage	1000 VDC
Maximum Series Fuse Rating	20 A

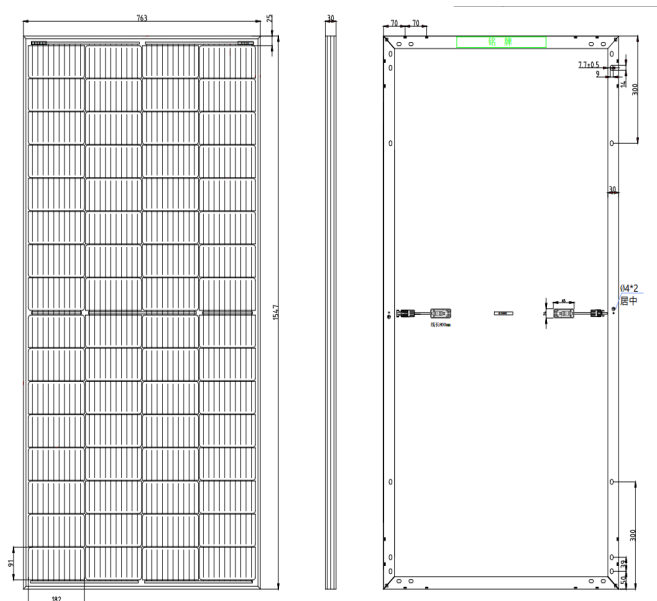
### Thermal Characteristics

OperatingTemp. Range	-40°C - 85°C(-40°F - 185°F)
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.06%/°C

### Junction Box

IP Rating	IP 68
Diode Type	MD2045S/MD3045S
Number of Diodes	2 Diode(s)
Output Cables	12 AWG 800mm (31.5 in)

### Module Diagram



### Mechanical Data

Solar Cell Type	Monocrystalline (7.2 x 3.6 in)
Number of Cells	64 (4 x 16)
Dimensions	1547 x 763 x 30 mm / 60.9 x 30.0 x 1.2 in
Weight	12.4 kg / 27.3 lbs
Front Glass	Tempered Glass 0.11 in (2.8 mm)
Frame	Anodized Aluminum Alloy
Connectors	MC4 Connectors
Fire Rating	Class C

### Solar Connectors

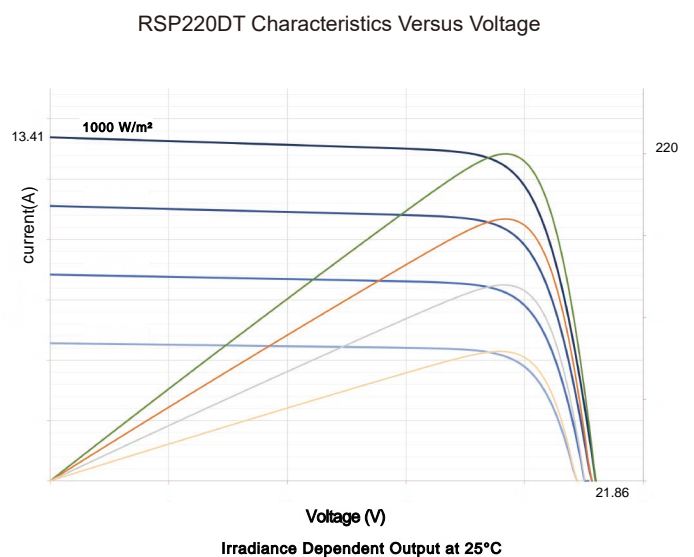
Rated Current	20 A
Maximum Voltage	1500 VDC
Maximum AWG Size Range	12 AWG
Temperature Range	-40°C - 85°C(-40°F - 185°F)
IP Rating	IP 68

### 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/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)