



# RSP320DT-BK

## Bifacial 320W Monocrystalline Solar Panel

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### Key Features

The Bifacial 320W 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 320W 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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### Electrical Data

Maximum Power at STC*	320 W
Optimum Operating Voltage ( $V_{mp}$ )	26.05 V
Optimum Operating Current ( $I_{mp}$ )	12.28 A
Open Circuit Voltage ( $V_{oc}$ )	30.43 V
Short Circuit Current ( $I_{sc}$ )	13.09 A
Module Efficiency	19.2%
Maximum System Voltage	1000 VDC
Maximum Series Fuse Rating	30 A

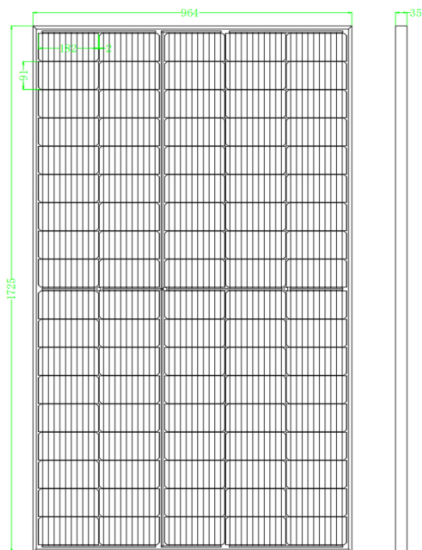
### Thermal Characteristics

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	40SQ045
Number of Diodes	3 Diode(s)
Output Cables	12 AWG 1500mm (59.1 in)

### Module Diagram



### Mechanical Data

Solar Cell Type	Monocrystalline (7.2 x 3.6 in)
Number of Cells	90 (5 x 9 x 2)
Dimensions	1725 x 964 x 35mm(67.9 x 38.0 x 1.4in)
Weight	17.6 kg (38.8 lbs)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminum Alloy
Connectors	Solar Connectors
Fire Performance	Type 1

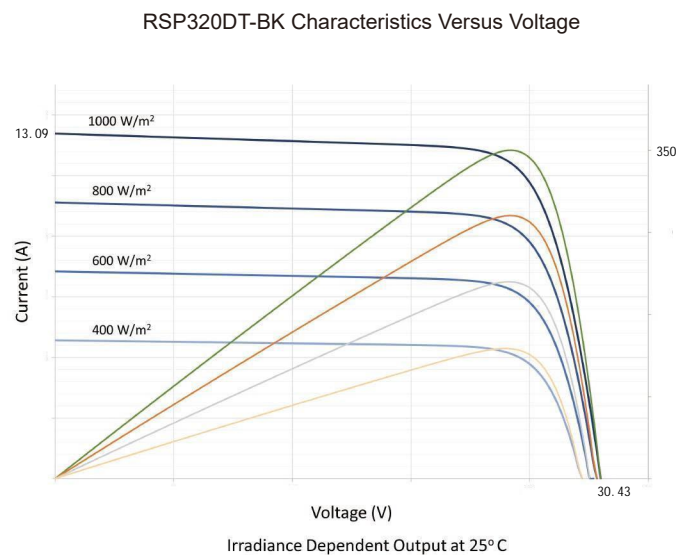
### Solar Connectors

Rated Current	30 A
Maximum Voltage	1500 VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°C -90°C(-40°F - 194°F)
IP Rating	IP 68

### Certifications



### 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)