



## Ultra-Flex 150W Thin film PV Module With Tape

### RSP150MCB-BB-T-G1

#### Key Features

Thin and rollable, the Ultra-Flex 150Watt thin film module provides you with higher efficiency per unit area. Empowering the future with advanced thin film solar cell technology; Thin film is more flexible, more stable, more durable and more sensitive to light, it provides a long-term, stable and secure source of energy.

- 360° bendability
- Better low light response
- 70% less weight than typical rigid solar panel
- Up to IP67 waterproof
- Excellent hail impact resistance
- Better performance under partial shadowing

#### Potential Uses

Renogy Ultra-Flex Thin film modules can be used on the canopy of pickup trucks and SUVs to provide power for outdoor activities; It also can be used to charge RV life batteries while parked or as a supplement to an existing PV system.



Power Output Warranty



Material and Workmanship Warranty

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## Electrical Data

Maximum Power at STC*	150 W
Optimum Operating Voltage( $V_p$ )	19.0 V
Optimum Operating Current( $I_p$ )	7.89 A
Open Circuit Voltage( $V_{oc}$ )	24.0 V
Short Circuit Current( $I_{sc}$ )	8.35 A
Module Efficiency	14.0 %
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	10 A

## Mechanical Data

Solar Cell Type	Thin film
Number of Cells	72 (2 x 36)
Length	1658mm(65.3in)
Width	646mm(25.4in)
Thickness	1.5mm(0.06in)
Weight	3.0kg (6.61lbs)
Connectors	Solar Connectors
Frame	None

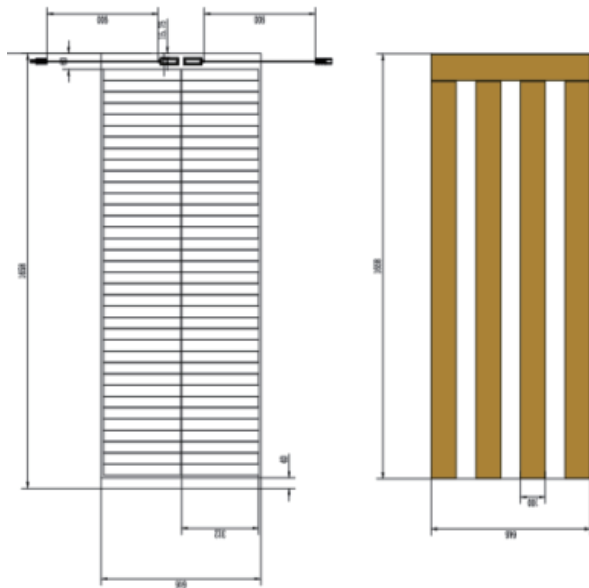
## Thermal Characteristics

Operating Temp Range	-40°C-85°C(-40°F-185°F)
Nominal Operating Cell Temperature (NOCT)	48±2°C
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.008%/°C

## MC4 Connectors

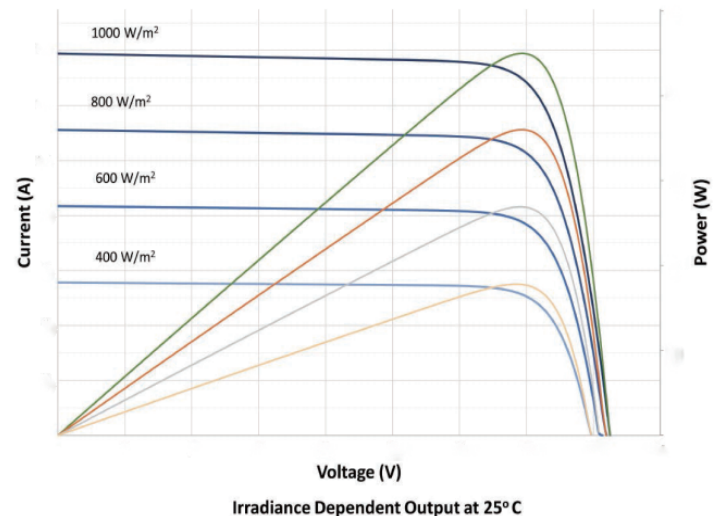
Rated Current	30A
Maximum Voltage	1000V DC
Maximum AWG Size Range	12 AWG
Temperature Range	- 40°C - 85°C(-40°F-185°F)
IP Rating	IP 67

## Module Diagram



## IV-Curve

### RSP150MCB-BB-T-G1- Characteristics 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)