



## Renogy ShadowFlux 120W Rigid Solar Panel (Topcon)

RSP120DC-ASR-G1

### Key Features

ShadowFlux anti-shading tech and high efficiency cell tech, provides you with higher module efficiency and more real power generation;

Empowering the future with advanced high efficiency solar cell and ShadowFlux module technology, ShadowFlux Rigid solar panel is more stable, more durable, it provides a long-term stable and secure source of energy.

- ShadowFlux anti-shading tech better performance under partial shadowing
- High efficiency solar cell greater than 24.8%
- Less weight and size
- Lower temperature coefficient effect
- Up to IP67 waterproof
- No hot spots guaranteed

### Potential Uses

Renogy ShadowFlux Rigid solar modules can be used on the canopy of pickup trucks and SUVs to provide power while shading the sun for outdoor activities;

Also can be used to charge RV life batteries while parked or as an upgrade to an existing PV system.



Power Output Warranty



Material and Workmanship Warranty

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## Electrical Data

|                                    |             |
|------------------------------------|-------------|
| Maximum Power at STC*              | 120 W       |
| Optimum Operating Voltage( $V_p$ ) | 28.9 V      |
| Optimum Operating Current( $I_p$ ) | 4.21 A      |
| Open Circuit Voltage( $V_o$ )      | 33.7 V      |
| Short Circuit Voltage( $I_s$ )     | 4.57 A      |
| Module Efficiency                  | 20.7 %      |
| Maximum System Voltage             | 1000 VDC UL |
| Maximum Series Fuse Rating         | 15 A        |

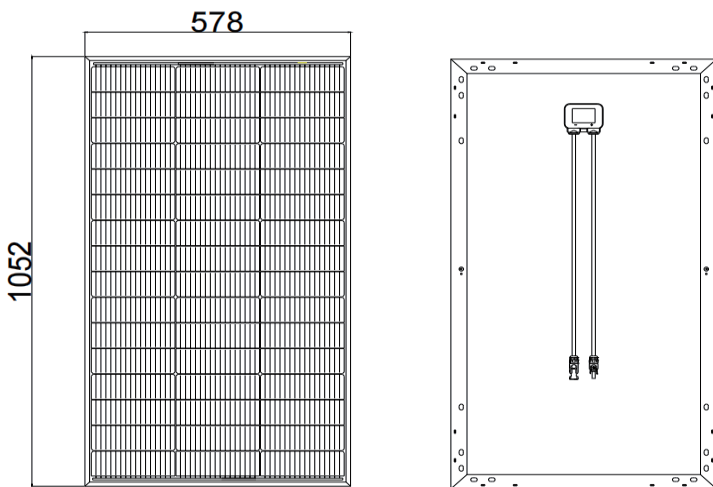
## Thermal Characteristics

|                                           |                         |
|-------------------------------------------|-------------------------|
| Operating Temp Range                      | -40°C-85°C(-40°F-185°F) |
| Nominal Operating Cell Temperature (NOCT) | 45±2°C                  |
| Temperature Coefficient of Pmax           | -0.29%/°C               |
| Temperature Coefficient of Voc            | -0.25%/°C               |
| Temperature Coefficient of Isc            | 0.05%/°C                |

## Junction Box

|               |                        |
|---------------|------------------------|
| IP Rating     | IP 67                  |
| Output Cables | 14 AWG 600mm (23.6 in) |

## Module Diagram



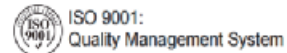
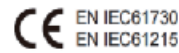
## Mechanical Data

|                  |                                   |
|------------------|-----------------------------------|
| Solar Cell Type  | Monocrystalline high efficiency   |
| Number of Cells  | 48 (3 x 16)                       |
| Dimensions       | 1052*578*30mm(41.42*22.76*1.18in) |
| Weight           | 6.81kg(15.87lbs)                  |
| Front Glass      | 1.5mm(0.06in)                     |
| Frame            | Anodized Aluminium Alloy          |
| Connectors       | Solar Connectors                  |
| Fire Performance | Type I                            |

## MC4 Connectors

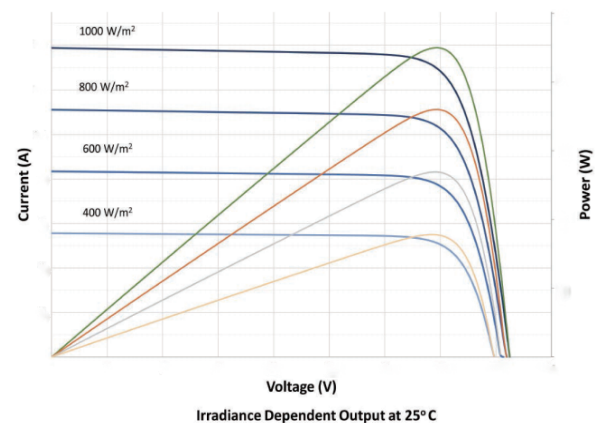
|                        |                            |
|------------------------|----------------------------|
| Rated Current          | 30A                        |
| Maximum Voltage        | 1000V DC                   |
| Maximum AWG Size Range | 12 AWG                     |
| Temperature Range      | - 40°C - 85°C(-40°F-185°F) |
| IP Rating              | IP 68                      |

## Certifications



## IV-Curve

### RSP120DC-ASR-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)