



**SPR200**

**60 Cells**

MONOCRYSTALLINE - 10BB

**200W**

POWER OUTPUT

**23%**

THE HIGHEST EFFICIENCY

**0~+5W**

TOLERANCE

## 200W Monocrystalline Solar Panel

### Key Features

The Calpha 200W 12V Monocrystalline Solar Panel is designed to deliver high performance and durability, making it an ideal choice for those seeking a reliable and efficient solar energy solution. With a remarkable conversion efficiency of 23%, this solar panel leverages advanced PERC cell technology and bypass diodes to maximize energy generation. Perfect for various applications including residential, RV, and commercial installations, this panel ensures you harness the sun's energy effectively.

- **High-Performance**

200W Monocrystalline solar panel, conversion efficiency of 23%, featuring a half-cut PERC cell design and bypass diodes.

- **Premium Quality**

Anti-corrosion aluminum frame ensures durability and longevity, IP68 waterproof enhances durability and protection

- **Quick & Easy Mounting**

Pre-drilled holes on the back for fast installation.

- **Universal Compatibility**

Equipped with MC4 connector, effortlessly meet your specific requirements.

- **Certifications & Warranty**

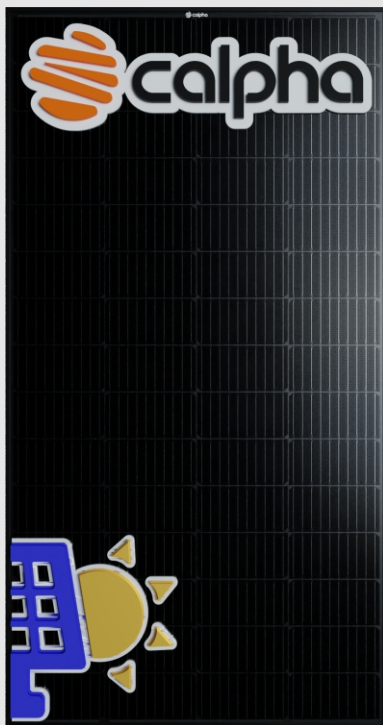
CE, FCC, RoHS standards certified, 5-year warranty.



Power Output Warranty



Material and Workmanship Warranty



# SPR200

## 200W Monocrystalline Solar Panel

### Electrical Data

Maximum Power at STC*	200 W
Optimum Operating Voltage ( $V_{mp}$ )	17.1 V
Optimum Operating Current ( $I_{mp}$ )	11.7 A
Open Circuit Voltage ( $V_{oc}$ )	20.1V
Short Circuit Voltage ( $I_{sc}$ )	12.3A
Module Efficiency	23 %
Maximum System Voltage	600 VDC
Maximum Series Fuse Rating	20 A

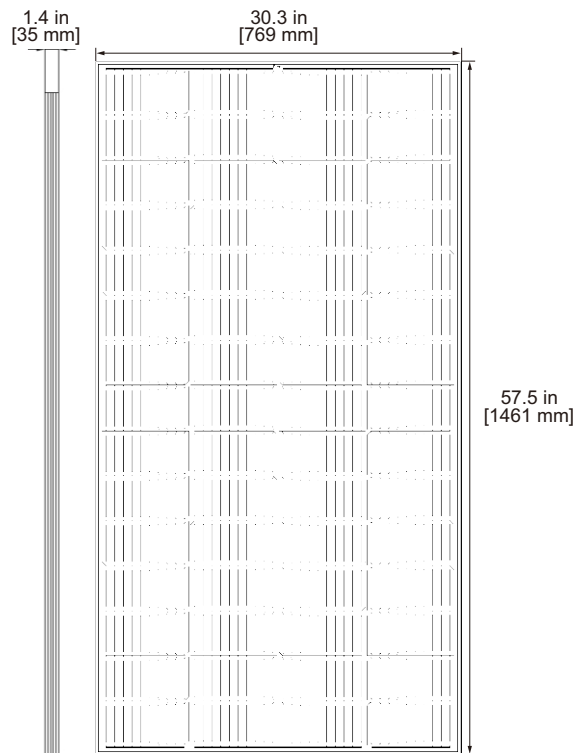
### Junction Box

IP Rating	IP 68
Diode Type	THY2550
Number of Diodes	2 Diode(s)
Connection Cable	4 mm <sup>2</sup> (AWG 11), 3 ft (0.9m) length

### Thermal Characteristics

OperatingTemp.Range	-40°C - 85°C(-40°F-185°F)
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### Module Diagram



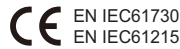
### Mechanical Data

Solar Cell Type	Monocrystalline (182mm)
Number of Cells	60 (4 x 15)
Dimensions	57.5 x 30.3 x 1.4 in (1461 x 769 x 35.4 mm)
Weight	26.2 lbs (11.9 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors Cable	MC4 SOLAR
Fire Rating	Type 1

### MC4 Connectors

Rated Current	30A
Maximum Voltage	600V DC
Maximum AWG Size Range	11 AWG
Temperature Range	-40°F to 185°F / -40°C to 85°C
IP Rating	IP 68

### Certifications



\*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.