



SPR100

30 Cells

MONOCRYSTALLINE - 10BB

100W

POWER OUTPUT

23%

THE HIGHEST EFFICIENCY

0~+5W

TOLERANCE

100W Monocrystalline Solar Panel

Key Features

The Calpha 100W 12V Monocrystalline Solar Panel is the epitome of efficiency and reliability, designed to meet all your solar energy needs. With an impressive 23% conversion efficiency, this panel leverages advanced technologies like half-cut PERC cells and bypass diodes to ensure optimal performance even under shading conditions. Whether you're looking to power your home, RV, or commercial setup, this solar panel offers a robust and durable solution for sustainable energy generation.

- **High-Performance**

100W 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**

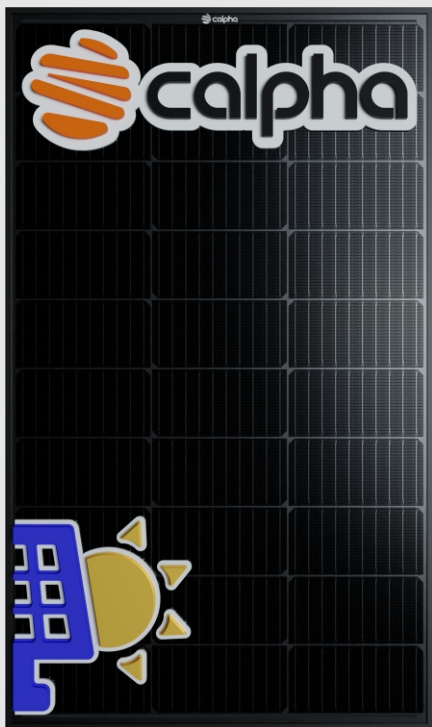
CE, FCC, RoHS standards certified, 5-year warranty.



Power Output Warranty



Material and Workmanship Warranty



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Electrical Data

Maximum Power at STC*	100 W
Optimum Operating Voltage (V_{mp})	17.1 V
Optimum Operating Current (I_{mp})	5.85 A
Open Circuit Voltage (V_{oc})	20.1V
Short Circuit Voltage (I_{sc})	6.15A
Module Efficiency	23 %
Maximum System Voltage	600 VDC
Maximum Series Fuse Rating	10 A
Standard Tested Condition	1 kW/m ² , AM 1.5, 25°C

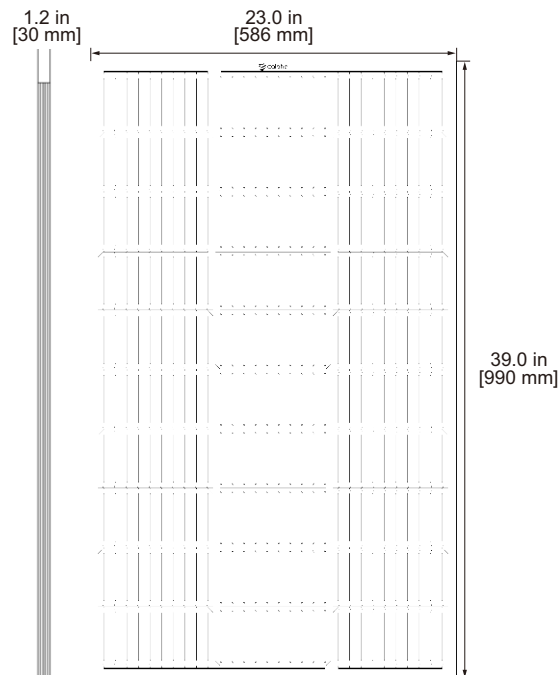
Junction Box

IP Rating	IP 68
Diode Type	THY2550
Number of Diodes	2 Diode(s)
Connection Cable	2.5 mm ² (AWG 13), 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	30 (3 x 10)
Dimensions	39.0 x 23.0 x 1.2 in (990 x 586 x 29.8 mm)
Weight	13.4 lbs (6.1 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/m², 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.