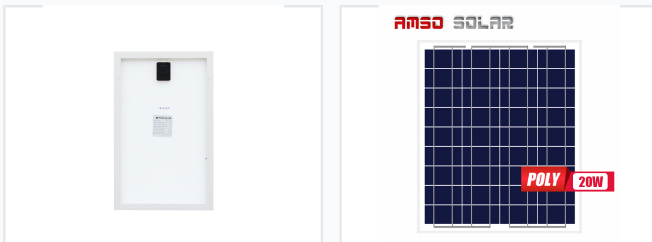


20W Polycrystalline Solar Panel

This 20W polycrystalline solar panel converts sunlight into electricity. It is suitable for residential off-grid solar power systems and easy to install and maintain.



ADDITIONAL IMAGES



Overview

Versatile 20W Polycrystalline Solution

This 20W polycrystalline solar panel is designed for high-efficiency energy conversion in a compact form factor, making it ideal for residential off-grid systems and DIY projects. Built with durable materials including anti-reflective tempered glass and a robust aluminum frame, it ensures long-lasting performance even in harsh environmental conditions. Its small size allows for easy installation and low-maintenance operation, specifically suited for 5-10V solar lighting and battery charging applications.

Performance Metrics

Electrical Specifications

20 W

Max Power (Pmax)

18 V

Voltage at Pmax (Vmp)

1.12 A

Current at Pmax (Imp)

21.9 V

Open Circuit Voltage (Voc)

Technical Details

Cell Technology	Polycrystalline Silicon with 5 Busbar technology
Number of Cells	36

Physical Properties

Dimensions	410mm x 350mm x 25mm
Weight	1.5 kg

Construction



High-quality construction featuring anti-reflective glass, UV-resistant EVA, and an IP67/IP68 junction box.

Build Materials

Component	Specification
Glass	High transmissivity, low-iron tempered anti-reflective glass
Frame	Anodized aluminum alloy
Encapsulant	EVA film with UV resistance
Junction Box	IP67/IP68 rated with bypass diodes
Back Sheet	High flame-resistant TPT

Environmental Resilience

Load Resistance

- Wind Load: 2400 Pascal
- Snow Load: 5400 Pascal
- Operating Temperature: -40°C to +85°C
- Salt mist and ammonia resistance certified

Temperature Coefficients

- P_{MAX}: -0.37%/°C
- V_{OC}: -0.29%/°C
- I_{SC}: 0.05%/°C

Certifications & Warranty

Warranty Terms

- 12-Year Product Warranty
- 25-Year Linear Power Warranty

Compliance & Standards

CE, TUV, IEC, ISO 14001, PV CYCLE

Applications

Recommended Applications

Off-grid Solar Light Systems • Garden Lighting • Battery Charging • Rooftop Installation • DIY Solar Projects