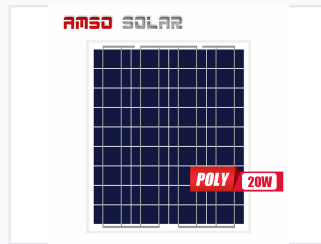


# 20W Polycrystalline Solar Panel

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<sub>MAX</sub>: -0.37%/°C
- V<sub>OC</sub>: -0.29%/°C
- I<sub>SC</sub>: 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