

**580W**

# Monocrystalline Solar Panels

**GK-1-72HTBD-580M**

## Features

-  Conversion efficiency up to 23.2%
-  Strong anti-degradation: only 1% power loss in the first year, just 0.4% per year after
-  High energy output in real conditions: better temp coefficient, low-light performance, and bifacial efficiency



# Electrical Parameters at STC

Model	GK-1-72HTBD-580M
Rated Maximum Power (Pmax)	580W
Open Circuit Voltage (Voc)	51.47V
Maximum Power Voltage (Vmp)	42.59V
Short Circuit Current (Isc)	14.37A
Maximum Power Current (Imp)	13.62A
Frame	anodized aluminium alloy
Front Glass	heat strengthened coated glass (0.08in / 2.0mm)
Back Glass	heat strengthened glass (0.08in / 2.0mm)
Output Cables	TüV 1×4mm <sup>2</sup> , (+)300mm, (-)200mm (support customization)
Temperature Coefficient of Isc (α <sub>Isc</sub> )	+0.045% / °C
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.25% / °C
Temperature Coefficient of Pmax (γ <sub>Pmp</sub> )	-0.29% / °C
Protection Level	Class II
Weight	68.34 lbs / 31.0 kg
Dimensions	89.68 × 44.65 × 1.18in / 2278 × 1134 × 30mm
Operating Conditions	
Maximum System Voltage	DC1500V (IEC)
Operating Temperature	113 ± 3.6°F / 45 ± 2°C
Maximum Series Fuse	30A
Maximum Static Load,Front	5400Pa
Maximum Static Load,Back	2400Pa
Certifications	CE,IEC 61215(2021)/IEC 61730(2023),PID
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 77°F / 25°C, spectrum AM1.5

\*Standard Test Conditions: irradiance of 1000W/m<sup>2</sup>, cell temperature at 77°F / 25°C, and AM1.5 solar spectrum

## Solar Panel Dimensions

