

## FS-175 175 Watt Solar Panel

Built with an aluminum frame that ensures superior performance during even the most severe weather, the Future Solutions solar panel has high efficiency solar cells that ensure high performance and maximum power output.

### ADVANCED SOLAR CELLS

High-efficiency solar cells ensure high performance of the solar module and create maximum power output.

### PANEL LIFE

Under 10% decrease of output power within 10 years and 20% decrease in 20 - 25 years.

### ALUMINUM FRAME

Screw-less corner joints provide superior rigidity, with pre-drilled mounting holes for ease of installation.

### HIGH-TRANSMISSION GLASS

High-transmission 3.2mm tempered glass (over 92 - 95% transmission). Provides high module efficiency even in diffused light conditions.

### SUPERIOR JUNCTION BOX

High quality, weather proof junction box for extended life in harsh conditions.

### WEATHER-PROOF DESIGN

High impact resistance to the most severe weather: high wind, driving rain, heavy snow and hail. Moisture-proof and corrosion resistant.

# FS-175

## 175 Watt Solar Panel

### MECHANICAL SPECIFICATIONS

Dimensions	58.75 x 26.5 x 1.25 inches
Weight	24 lbs
Frame	Anodized Aluminum Alloy
Cable Length	34 inches
Number of Cells (Pcs)	36 (9x4)
Hail Impact Test	227g steel ball dropped from 1m height
Cell Size	6 inches
Cell Type	Multicrystalline
Junction Box	IP65

### ELECTRICAL SPECIFICATIONS

Maximum Power (Pmax)	175W
Maximum Power Voltage (Vmp)	17.64V
Maximum Power Current (Imp)	9.92A
Open Circuit Voltage (Voc)	21.60V
Short Circuit Current (Isc)	10.62A

STANDARD TEST CONDITIONS:  
IRRADIANCE: 1000W/M2 AM:1.5  
TEMPERATURE: 77°F

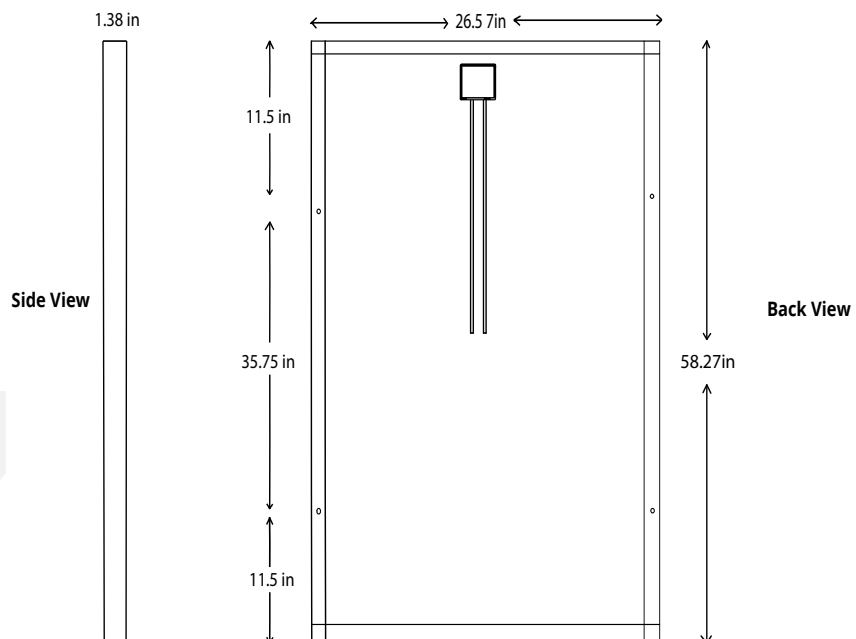
### TEMPERATURE COEFFICIENTS

Temp. Coefficients of Pmax	-0.45%/°C
Temp. Coefficients of Voc	-0.34%/°C
Temp. Coefficients of Isc	+0.05%/°C

### MAX LIMITS

Maximum System Voltage	600V UL/1000V IEC
Module Operating Temperature	-40 to +85°C

### DIAGRAM OF PANEL MODULE



\*\*\*All specifications and data described in this data sheet are tested under Standard Test Conditions (STC- Irradiance: 1000W/m<sup>2</sup>, Air Mass: 1.5, Temperature: 77°F) and may deviate marginally from actual values. Future Solutions and affiliates have reserved the rights 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 for informational purposes only. These data sheets can be found to download at [fsi-solutions.com](http://fsi-solutions.com).