



# SOLAR PANEL

## DFE100S-12U

High Efficiency Monocrystalline PV Module

**33 CELL**

MONOCRYSTALLINE MODULE

**100W**

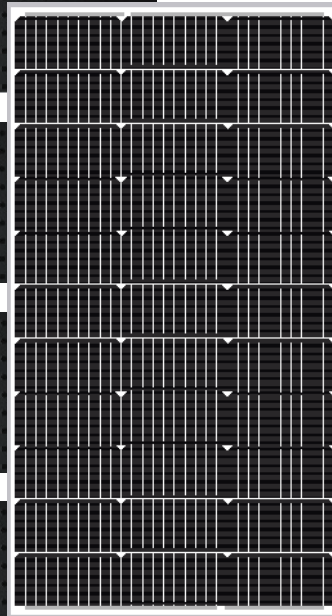
POWER OUTPUT

**20.00%**

MODULE EFFICIENCY

**5%**

POSITIVE TOLERANCE



- Nominal 12V DC for standard output.
- Outstanding low-light performance.
- Heavy-duty anodized frames.
- High transparent low-iron, tempered glass.
- Designed to withstand high wind pressures, Hail, and heavy snow.
- Quality aesthetic appearance.



**High Efficiency**

Module Efficiency improved through advanced cell technology and manufacturing capabilities.



**High PID Resistance**

Advanced cell technology and qualified materials lead to high resistance to PID.



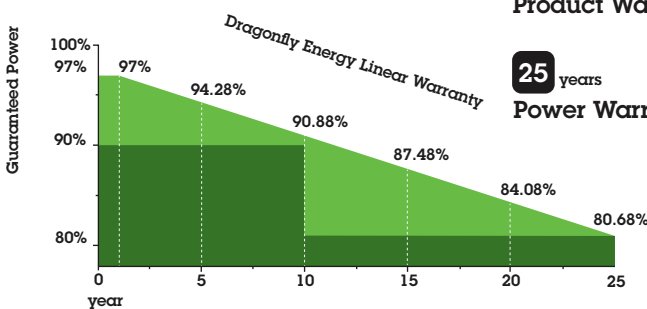
**Withstand Harsh Environment**

High PID Resistance  
5400 Pa positive load  
2400 Pa negative load  
Salt mist (IEC 61701)

### Performance Warranty

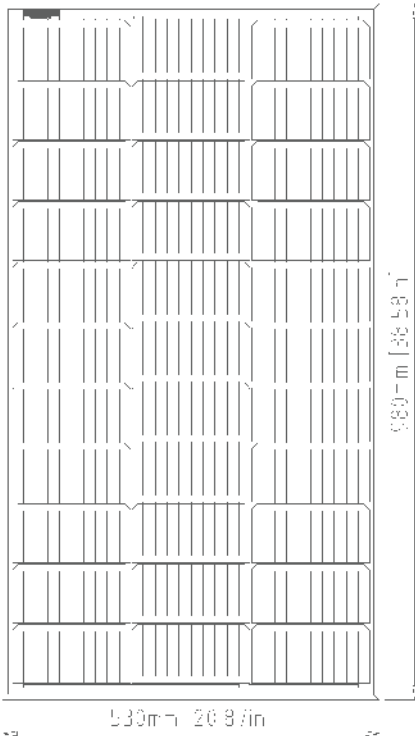
**10** years  
Product Warranty

**25** years  
Power Warranty



Product Certificate	IEC 61215, IEC61730
Management Certificate	ISO 9001:2016
Other certificate	Fire Rating Class C, TÜV Rheinland
Positive mechanical load	>5400Pa
Positive power tolerance	0~+5W
Warranty information	2 Year Product Warranty and Workmanship

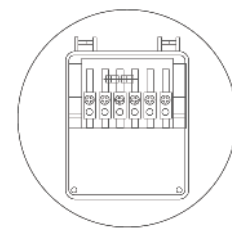
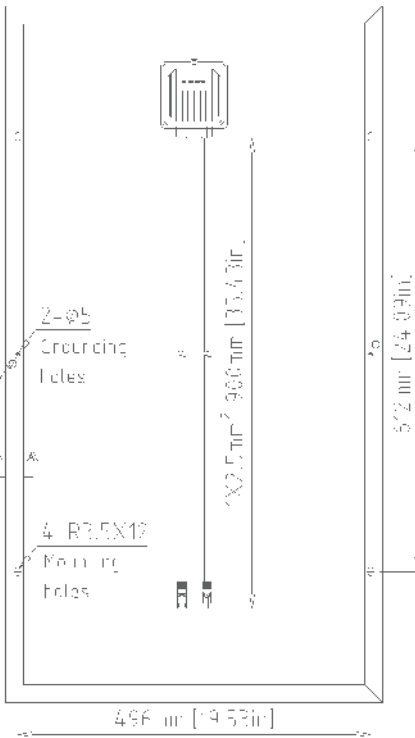




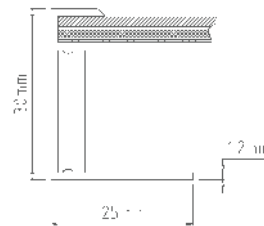
Electrical Characteristics		DFE100S-12U
Product Code		100031201A
Maximum Power (Pmax)		100W
Voltage at Pmax (Vmp)		19.23V
Current at Pmax (Vmp)		5.21A
Open-circuit Voltage (Voc)		22.12A
Short Circuit Voltage (Voc)		5.50A
Temperature Coefficient of Voc		$-(80 \pm 10)\text{mV}/^\circ\text{C}$
Temperature Coefficient of Isc		$(0.065 \pm 0.015)\%/^\circ\text{C}$
Temperature Coefficient of Power		$-(0.5 \pm 0.05)\%/^\circ\text{C}$
NOCT (Air 20°C; Sun 0.8kW/m <sup>2</sup> wind 1m/s)		47±2°C
Operating Temperature		-40°C to 85°C
Maximum System Voltage		1000V DC
Power Tolerance		±5%

\*STC: Irradiance 1000/m<sup>2</sup>, AM1.5 spectrum, module temperature 25°C  
 \*NOCT: Nominal operating cell temperature (the data is only for reference)

Specifications		DFE100S-12U
Cells		Monocrystalline silicon solar cell
No. of cells and connections		33(3x11)
Module dimension		980mm[38.58in.]x530mm[20.87in.]x30mm[1.18in.]
Weight		6.49kg[14.32lbs]
Packing information		1030mm[40.55in.]x580mm[22.83in.]x80mm[3.15in.]/(1pc/ctn)

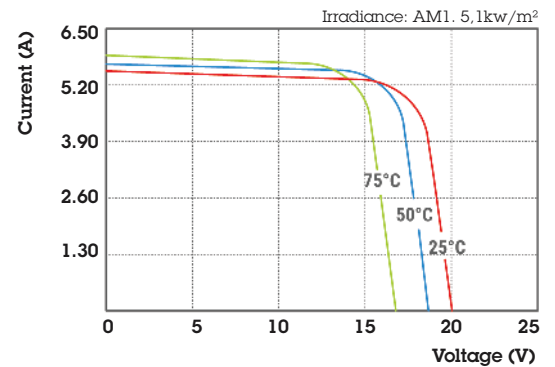


Junction Box  
Top View (Lid Open)



Section A-A

## Characteristics



DFE100S-12U I-V Curves

Dimensions in brackets are in inches.  
 Un-bracketed dimensions are in millimeters.  
 Unit: mm[in.]