



# SOLAR PANEL

## DFE150S-12U

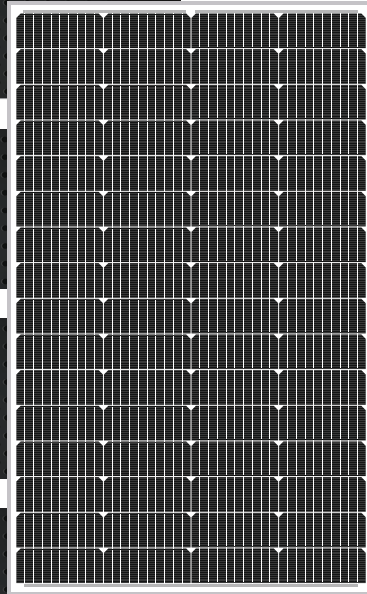
High Efficiency Monocrystalline PV Module

**64 CELL**  
MONOCRYSTALLINE MODULE

**150W**  
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.



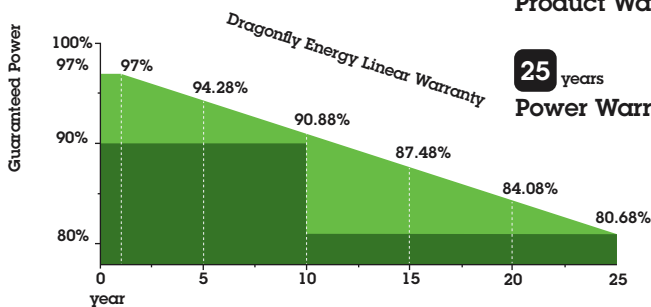
**Withstand Harsh Environment**

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

### Performance Warranty

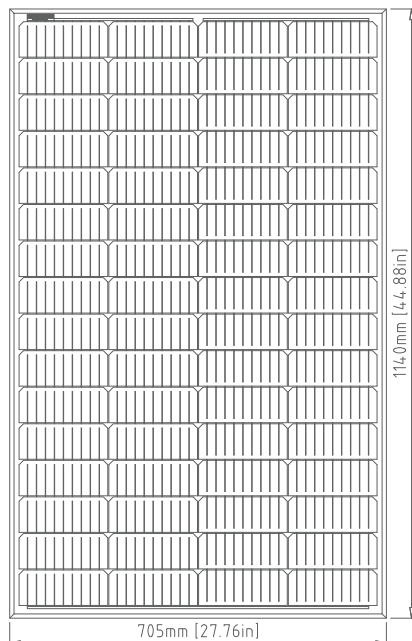
**10 years**  
Product Warranty

**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



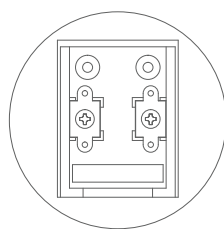
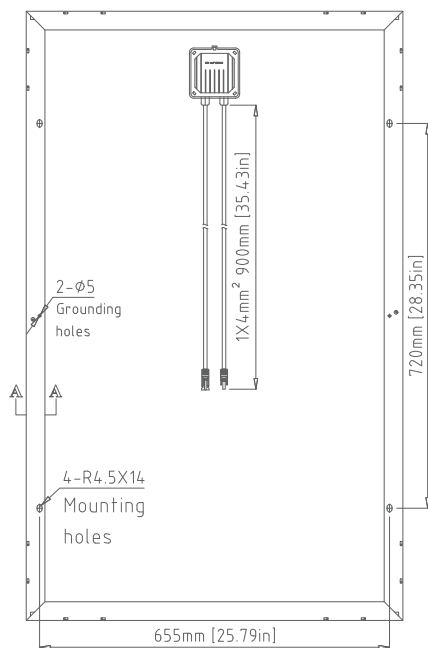


Electrical Characteristics		DFE150S-12U
Product Code		150031201A
Maximum Power (P <sub>max</sub> )		150W
Voltage at P <sub>max</sub> (V <sub>mp</sub> )		18.53V
Current at P <sub>max</sub> (V <sub>mp</sub> )		8.32A
Open-circuit Voltage (V <sub>oc</sub> )		21.37A
Short Circuit Voltage (V <sub>oc</sub> )		8.77A
Temperature Coefficient of V <sub>oc</sub>		-(80±10)mV/°C
Temperature Coefficient of I <sub>sc</sub>		(0.065±0.015)%/°C
Temperature Coefficient of Power		-(0.5±0.05)%/°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%

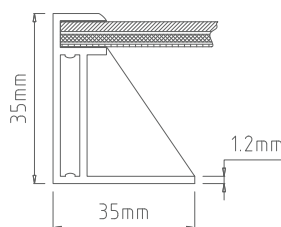
\*STC: Irradiance 1000/m<sup>2</sup>, AM1.5 spectrum, module temperature 25°C

\*NOCT: Nominal operating cell temperature (the data is only for reference)

Specifications		DFE150S-12U
Cells		Monocrystalline silicon solar cell
No. of cells and connections		64(4x16)
Module dimension		1140mm[44.88in.]x705mm[27.76in.]x35mm[1.38in.]
Weight		8.98kg[19.80bs]
Packing information		1190mm[46.85in.]x755mm[29.72in.]x85mm[3.35in.]/(1pc/ctn)

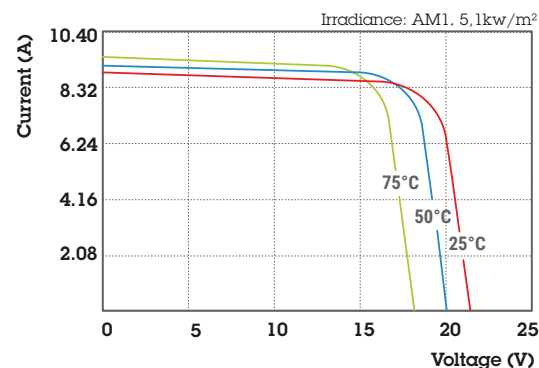


Junction Box  
Top View (Lid Open)



Section A-A

## Characteristics



DFE150S-12U I-V Curves

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