



SOLAR PANEL

DFE050S-24U

High Efficiency Monocrystalline PV Module

72 CELL

MONOCRYSTALLINE MODULE

50W

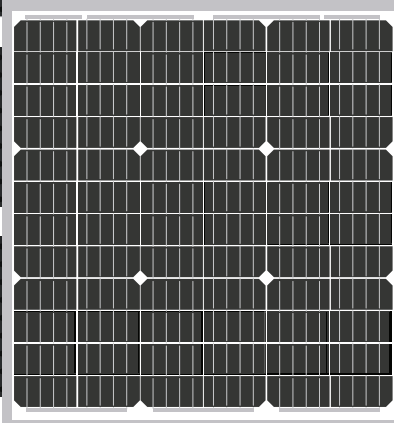
POWER OUTPUT

20.00%

MODULE EFFICIENCY

5%

POSITIVE TOLERANCE



- Nominal 24V 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.



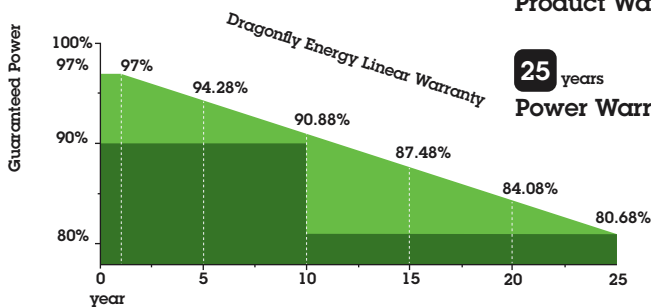
Withstand Harsh Environment

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

Performance Warranty

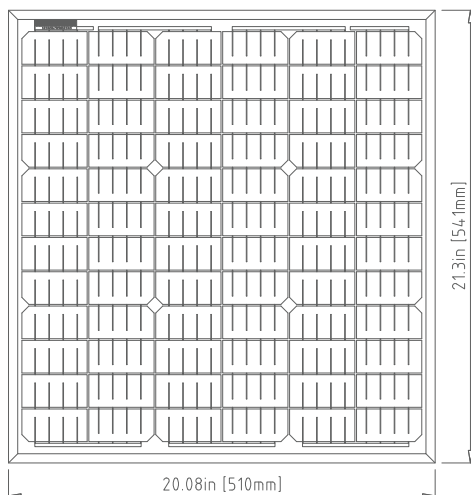
10 years
Product Warranty

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

DFE050S-24U

Product Code	050032401A
Maximum Power (P _{max})	50W
Voltage at P _{max} (V _{mp})	43.02V
Current at P _{max} (V _{mp})	1.16A
Open-circuit Voltage (V _{oc})	49.22V
Short Circuit Voltage (V _{oc})	1.23A
Temperature Coefficient of V _{oc}	-(80±10)mV/°C
Temperature Coefficient of I _{sc}	(0.065±0.015)%/°C
Temperature Coefficient of Power	-(0.5±0.05)%/°C
NOCT (Air 20°C; Sun 0.8kW/m ² wind 1m/s)	47±2°C
Operating Temperature	-40°C to 85°C
Maximum System Voltage	1000V DC
Power Tolerance	±5%

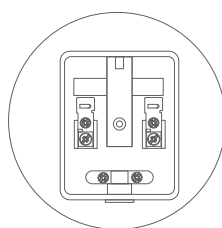
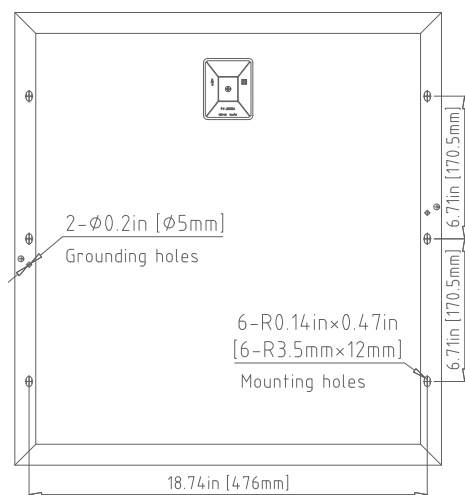
*STC: Irradiance 1000/m², AM1.5 spectrum, module temperature 25°C

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

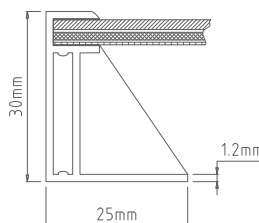
Specifications

DFE050S-24C1D2

Cells	Monocrystalline silicon solar cell
No. of cells and connections	72(6X12)
Module dimension	541mm[21.30in.]x510mm[20.08in.]x30mm[1.18in.]
Weight	3.28kg[7.25lbs]
Packing information	585mm[23.03in.]x555mm[21.85in.]x65mm[2.56in.]/(1pc/ctn)

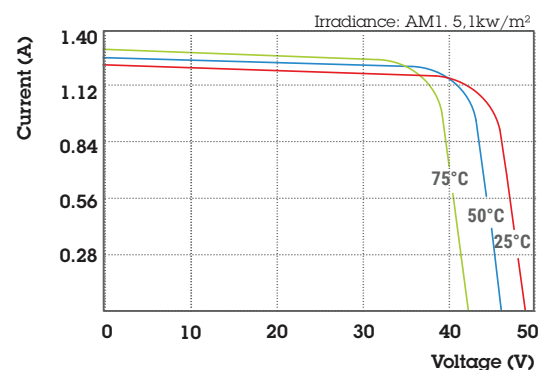


Junction Box
Top View (Lid Open)



Section A-A

Characteristics



DFE050S-24U I-V Curves

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