SOLAR PANEL



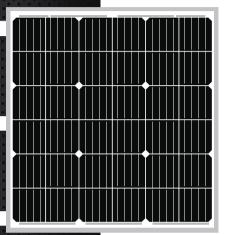
36 CELL

MONOCRYSTALLINE MODULE

50W
POWER OUTPUT

20.00%

MODULE EFFICIENCY



5%
POSITIVE TOLERANCE

year

Performance Warranty Product Warranty Dragonfly Energy Linear Warranty Guaranteed Power 100% 97% 97% 25 years 94.28% Power Warrantv 90.88% 90% 87.48% 84.08% 80.68% 80%

20

Product Certificate IEC 61215, IEC61730

10

Management Certificate ISO 9001:2016

Other certificate Fire Rating Class C, TÜV Rheinland

Positive mechanical load >5400Pa Positive power tolerance $0 \sim +5$ W

Warranty information 2 Year Product Warranty and Workmanship

DFE050S-12U

High Efficiency Monocrystalline PV Module

- 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)

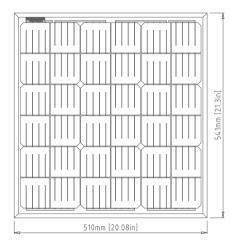






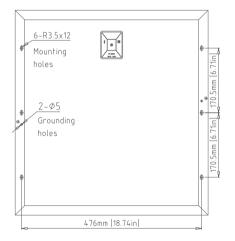




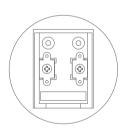


Electrical Characteristics	DFE050S-12T
Product Code	050031201A
Maximum Power (Pmax)	50W
Voltage at Pmax (Vmp)	20.84
Current at Pmax (Vmp)	2.35
Open-circuit Voltage (Voc)	24.04
Short Circuit Voltage (Voc)	2.48
Temperature Coefficient of Voc	-(80±10)mV/°0
Temperature Coefficient of Isc	(0.065±0.015)%/°0
Temperature Coefficient of Power	-(0.5±0.05)%/°(
NOCT (Air 20°C; Sun 0.8kWm² wind 1m/s)	47±2°0
Operating Temperature	-40°C to 85°C
Maximum System Voltage	1000V D
Power Tolerance	±5%

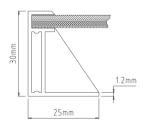
*STC: Irradiance 1000/m2, AM1.5 spectrum, module temperature 25°C



Specifications	DFE050S-12U	
Cells	Monocrystalline silicon solar cell	
No. of cells and connections	36(6ж6)	
Module dimension	541mm[21.30in.]x510mm[20.08in.]x30mm[1.18in.]	
Weight	3.28kg[7.25Ibs]	
Packing information	590mm[23.23in.]x560mm[22.05in.]x80mm[3.15in.]/(1pc/ctn)	

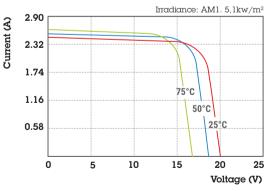


Junction Box Top View (Lid Open)



Section A-A

Characteristics



DFE050S-12U I-V Curves

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

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