

DESIGNED FOR OFF-GRID APPLICATIONS

altE solar modules are designed specifically for use in off grid applications.

APPLICATIONS

- Off-grid Power for Cabins and Vacation Homes
- Solar Water Pumping
- Solar Powered Refrigerators
- Remote WiFi and Wireless Repeaters
- Power for RVs and Campers
- Electrification of Remote Villages
- Hobbyist Projects Needing Remote or Mobile Power
- Power for Remote Monitoring Systems

WARRANTY INFO

altE modules offer 3 year workmanship / 25 year performance warranty.

ALT150-12P

150 WATTS, 12 VOLTS



Polycrystalline Photovoltaic Module



ELECTRICAL SPECIFICATIONS

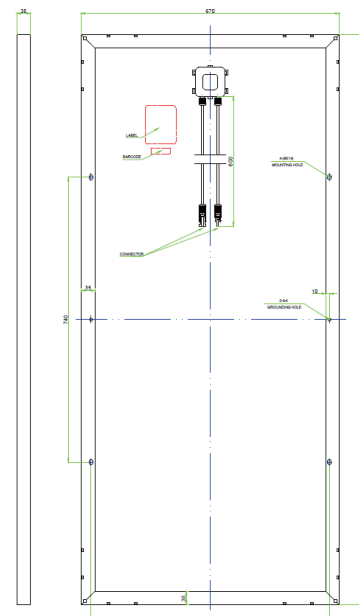
Open-Circuit Voltage (Voc)	22.32V
Optimum Operating Voltage (Vmp)	18.01V
Short-Circuit Current (Isc)	8.86A
Optimum Operating Current (Imp)	8.33A
Maximum Power at STC* (Pmax)	150W
Module Efficiency	15.63%
Operating Temperature	-40°C to 85°C
Maximum System Voltage	600V DC
Power Tolerance	±3W
Nominal Voltage	12V

TEMPERATURE CHARACTERISTICS

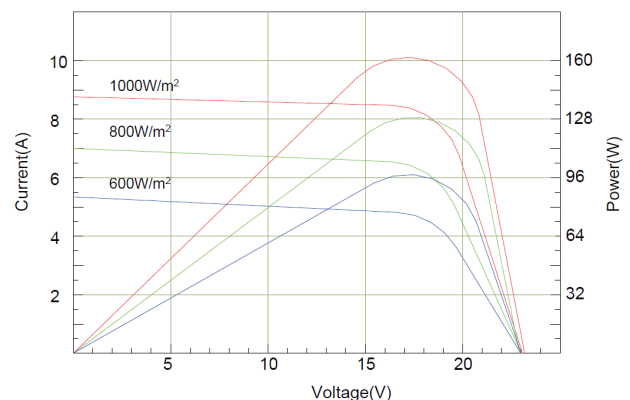
Nominal Operating Cell Temperature (NOCT)	45 ± 2°C
Temperature Coefficient of Pmax	-(0.410 ± 0.05)%/K
Temperature Coefficient of Voc	-(0.320 ± 0.01)%/K
Temperature Coefficient of Isc	+(0.050 ± 0.05)%/K
Maximum Series Fuse/Current Rating	15A

MODULE CHARACTERISTICS

Module Dimensions	1480 x 670 x 35mm 58.3" x 26.4" x 1.4"
Weight	11.5Kg 25.35lbs
Cells Array & Numbers	4 x 9 (36 Cells)



I-V Characteristics Curve



SOLAR CELLS: Poly crystalline (156 x 156mm)
LAMINATE: Glass/EVA/TPT (tedlar/pet/tedlar) or TPE
FRONT SIDE: High-transmission 3.2mm tempered glass
BACK SIDE: TPT /TPE
FRAME: Clear anodized aluminum frame
RELATIVE HUMIDITY: 0 to 100%
RESISTANCE: 227g steel ball dropped from 1m high and 60 m/s wind
SNOW LOAD PARAMETERS: 2400Pa
OUTPUT: MC4 Compatible Connector Cables (+/red terminal on right and -/black terminal on left)
STC: Irradiance 1000W/m², Module temperature 25°C, AM = 1.5