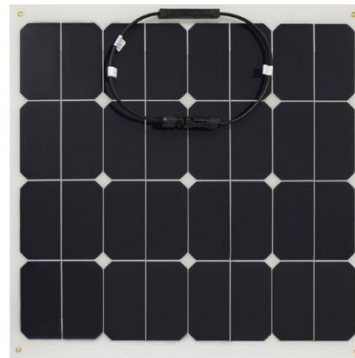


50W Lightweight Solar Panel



Key Features

- Top Ranked PTC Rating
- High Module Conversion Efficiency
- Fast and Inexpensive Mounting
- Maximizes System output by reducing mismatch loss
- 100% EL testing on all Renogy Modules, Guaranteed no Hot Spots



Electrical Characteristics

Maximum Power at STC (Pmax)	50 W
Optimum Operating Voltage (Vmp)	17.6 V
Optimum Operating Current (Imp)	2.84 A
Open Circuit Voltage (Voc)	21.6 V
Short Circuit Current (Isc)	3.05 A
Maximum System Voltage	600 VDC (UL)
Maximum Series Fuse Rating	15 A

STC: Irradiance 1000W/m^2 , Temperature 25°C , AM = 1

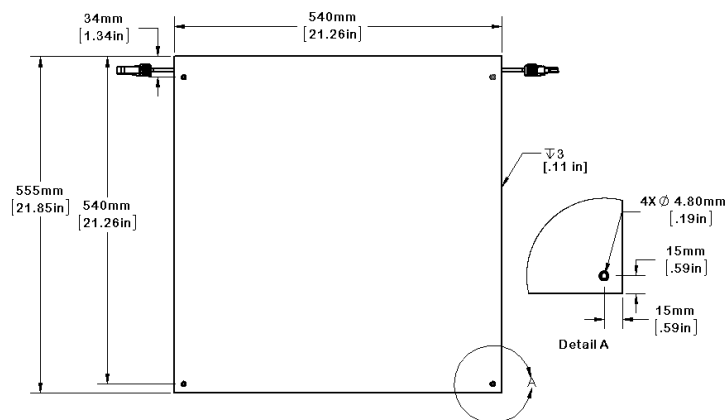
Mechanical Properties

Solar Cell	Monocrystalline (125 x 63 mm)
# of Cells	32 (2 x 4 x 4)
Dimensions	570 x 540 x 3 mm (21.8 x 21.2 x 0.12 in)
Weight	1.2 kg. (2.8 lbs.)
Junction Box	IP65 Rated
Output Cables	4.0 mm ² (0.006 in ²), 305mm (12 in)
Connectors	MC4 Connectors
Fire Rating	Class C

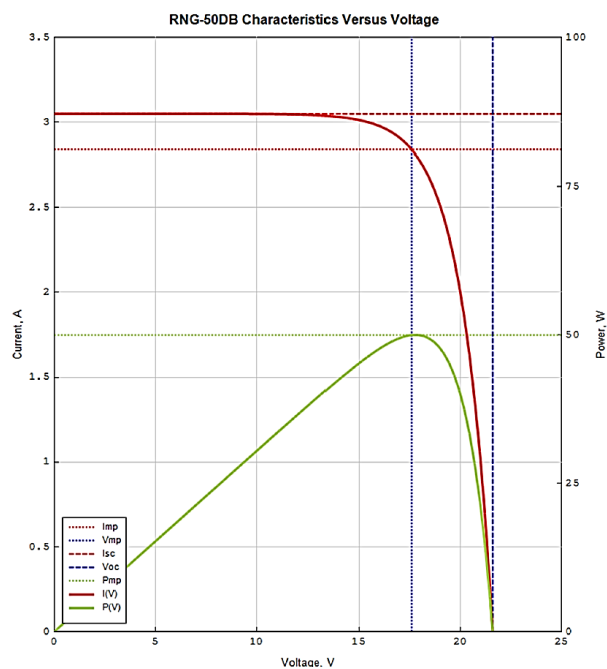
Temperature Characteristics

Operating Module Temperature	-40°C to +80°C
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.44%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.04%/°C

Module Diagram



Module Diagram





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