



FLIR PV48

Solar Panel Tester and I-V Curve Tracer with Temperature Measurements

www.flir.com/PV48



Key Features

- Instantly measures maximum power, temperature, and I-V curve
- Provides graphical data analysis with I-V curve up to 800 W per panel
- Diagnoses and troubleshoots solar panels with included MC4 PV plugs and clips
- High-contrast, large LCD display is easy to read in direct sunlight
- Powered by a built-in lithium battery

Main Applications

- Verify the performance and safety of solar power systems
- Ensure the quality of solar panels during production

SPECIFICATIONS

Electrical Measurement	Range	Accuracy
Maximum Power Value (Pmax)	0 W to 800 W	±5%
Voltage at MMPT point (Vmax)	0 V to 60 V	±5%
Current at MMPT point (Imax)	0 A to 30 A	±5%
Open Circuit Voltage (VOC)	0 V to 60 V	±1%
Short Circuit Current (ISC)	0 A to 30 A	±1%
Device Temperature Protection	0°C to 60°C	±3%
Measuring rate	3 samples per second	
Power System		
Display	TFT Display	
Backlight	White LED array	
Warranty	Limited 3-Year Warranty https://www.flir.com/testwarranty	
Calibration cycle	Once per year, recommended	
Certifications		
Certifications	CE, RCM, FCC	
Safety standards	IEC 61010-1	
EMC standards	EN61326-1	

Environmental Data	
Operating ambient temperatures and relative humidity (RH)	-10°C to 50°C (14°F to 122°F), <80% RH
Storage temperature and RH	-20°C to 60°C (-4°F to 140°F), 0 to 80% RH
Operating altitude	2000 m (6560 ft)
Pollution degree	2
Meter Physical Data	
Weight	206 g (0.45 lbs)
Dimensions (L x W x H)	151.6 mm x 72.5 mm x 38 mm (5.97 in x 2.85 in x 1.50 in)
Included in the box	PV48 Carrying Pouch CAT III-300 V Double-Molded Alligator Clips CAT III-300 V MC4 PV Plugs 1 x 3.7 V Li-ion Battery User Manual

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.

For technical or sales support, please visit:
www.flir.com/about/general-inquiries

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