



# FLIR PV48

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

[www.flir.com/PV48](http://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<br><a href="https://www.flir.com/testwarranty">https://www.flir.com/testwarranty</a> |          |
| 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<br>(5.97 in x 2.85 in x 1.50 in)  |
| Included in the box                                       | PV48<br>Carrying Pouch<br>CAT III-300 V Double-Molded Alligator Clips<br>CAT III-300 V MC4 PV Plugs<br>1 x 3.7 V Li-ion Battery<br>User Manual |

Specifications subject to change. For the most up-to-date specifications, please visit [flir.com](http://flir.com).

For technical or sales support, please visit:  
[www.flir.com/about/general-inquiries](http://www.flir.com/about/general-inquiries)

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Revised 03/04/25  
FLIR\_PV48\_Datasheet\_en-GB-A4 RH24-0864-INS