

Recommended solar energy solutions

Fluke Connect

Best suited for:

- Simplifying preventive maintenance programs
- Seamlessly integrating tool data into software
- Diagnosing asset health in the field
- Cloud-based data sharing



Clamp meters

Best suited for:

- 1500 V DC and 1000 V AC
- Measuring voc, isc, DC power, check polarity, continuity and resistance
- Measuring 1000 A AC/DC (2500 A AC with iFlex®) in combiner boxes, inverters, breakers or disconnects



Power quality analyzers

Best suited for:

- Troubleshooting and preventing problems in power generation, transmission and distribution systems
- Conducting load studies to reduce energy usage



Insulation testers

Best suited for:

- Wide range of tests including simple spot checks, timed tests and breakdown tests
- Insulation resistance testing up to 10 kV
- Use with switchgear, conductors and cables



Digital multimeters

Best suited for:

- Combiner box and inverter installation and troubleshooting
- Quick voltage detection
- Environments with both AC and DC or ghost voltages



Earth ground

Best suited for:

- Confirmation that the earth resistance meets safety compliance
- Validation that the grounding system has not deteriorated



Thermal imagers

Best suited for:

- Inspection of PV modules for troubleshooting polarity, electrical panels, and breaker panels for detection of "hot spots"
- Monitoring cooling fluid levels such as dielectric oils for transformers
- High resolution imagery allowing the technician to stand outside the arc flash zone and still visualize the detail needed.



PV analyzers

Best suited for:

- High-Efficiency Module Compatible: Up to 30A (PVA-1500HE2 only)
- 500V I-V Tracer: Measures precise I-V and PV curves
- Quick Throughput: Sweeps in 9s; 3.5MW in <1hr



Insulated hand tools

Best suited for:

- 1000 V AC and 1500 V DC
- Critical part of NFPA 70E



Fiber optic test and inspection

Best suited for:

- Inspecting and cleaning fiber optic endfaces
- Certifying fiber loss at installation
- Finding fiber optic cabling faults



Battery analyzers

Best suited for:

- Troubleshooting and performance testing on stationary batteries and battery banks
- Designed for measurement on stationary batteries of all types



Solar – Utility Scale

Solar energy is becoming one of the world's fastest-growing sources of power — making the first time that solar energy's growth has surpassed that of all other fuels. Solar technology is improving, and the cost of going solar is dropping rapidly. Solar technicians and managers need to be able to install and service equipment quickly, safely and efficiently.

Fluke tools perform like champions in the most challenging utility-scale solar environments. You can depend on Fluke tools to keep your world up and running.

Fluke. Keeping your world up and running.™

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Solar Technician/Installer

- Focus:**
- Mechanical and electrical design
 - Conduct commissioning
 - Troubleshooting
- Job needs:**
- ▲ PV Analyzer
 - Digital multimeter
 - Clamp meter
 - Temperature/Thermal
 - Insulation and power quality
 - Insulated hand tools
 - ▼ Earth ground

PV Designer/Electrician

- Focus:**
- Conduct commissioning
 - Preventative maintenance
 - Troubleshooting
- Job needs:**
- ▲ PV Analyzer
 - Digital multimeter
 - Clamp meter
 - Thermal imaging
 - Insulation and power quality
 - Insulated hand tools
 - ▼ Earth ground

Network Installer

- Focus:**
- Security network
 - Supervisory network
- Job needs:**
- Fiber optic loss tester
 - OTDR
 - Fiber optic camera

Solar Advisor

- Focus:**
- Mechanical and electric design
 - Troubleshooting
- Job needs:**
- ▲ PV Analyzer
 - Digital multimeter
 - Clamp meter
 - Thermal imaging

Operations and Maintenance Manager

- Focus:**
- Lead preventative maintenance
 - Troubleshooting
 - Monitoring
- Job needs:**
- ▲ PV Analyzer
 - Digital multimeter
 - Clamp meter
 - Thermal imaging
 - Insulation and power quality
 - ★ Battery analyzer
 - Insulated hand tools
 - OTDR
 - Fiber optic camera

Inverter boxes

Battery storage

Combiner box

Solar energy solutions

Learn how Fluke solutions can save you time and money while increasing your productivity at www.fluke.com

Network Tools			PV Analyzers	Electrical Measurement Tools			Insulation and Power Quality			Thermal Imaging		Battery Analyzer	Earth Ground		Software	Accessories		
OTDR	Inspection Camera	Fiber Loss Tester	PV Analyzer I-V Curve Tracer	Digital multimeter	Clamp meter	FC wireless multimeter kit	Insulation tester	Insulation tester	Power quality analyzer	Thermal imager	Temperature	Battery analyzer	Earth ground	Stakeless clamp	Fluke Connect™	TruTest™	Insulated hand tools	Test leads