



FLUKE®

Solar – Utility Scale

Solar energy is 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 deploying 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.

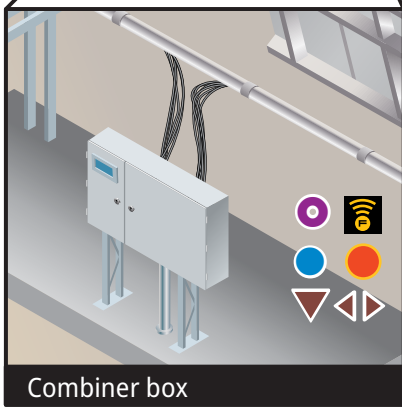
Solar Technician/Installer

Focus:

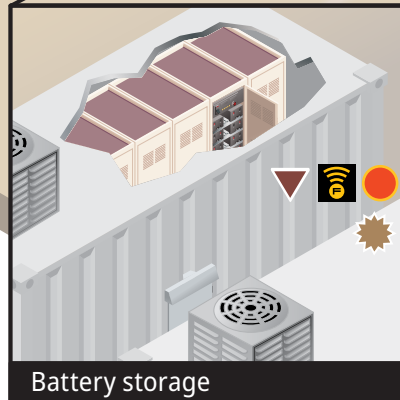
- Mechanical and electrical installation
- Conduct commissioning
- Troubleshooting

Job needs:

- ▲ PV Analyzer
- Digital multimeter
- Clamp meter
- Temperature/Thermal
- Insulation and power quality
- Insulated hand tools
- ▼ Earth ground
- ◀▶ Ground fault locator













Combiner box



Battery storage

Solar energy solutions

Network Tools			PV Analyzers		Electrical Measurement Tools		Insulation and Power Quality		
OTDR	Inspection Camera	Fiber Loss Tester	PV Analyzer I-V Curve Tracer		Digital multimeter	Clamp meter	Insulation tester	Insulation tester	Power quality analyzer
									
OptiFiber™ Pro	FI-500	SimpliFiber™ Pro	PVA 1500HE2	PVA 1500T2	283 FC/PV	393 FC	1537	1555 FC	1777



Inverter boxes

Network Installer

Focus:

- Security network
- Supervisory network

Job needs:

- ☀ Fiber optic loss tester
- ☀ OTDR
- ☀ Fiber optic camera

Electrician

Focus:

- Conduct commissioning
- Electrical installation
- Preventative maintenance
- Troubleshooting

Job needs:

- ▲ PV Analyzer
- Digital multimeter
- Clamp meter
- Thermal imaging
- Insulation and power quality
- Insulated hand tools
- ▼ Earth ground
- ◄ Ground fault locator

Operations and Maintenance Manager

Focus:

- Lead preventative maintenance
- Troubleshooting
- Monitoring

Job needs:

- ▲ PV Analyzer
- Digital multimeter
- Clamp meter
- Thermal imaging
- Insulation and power quality
- Insulated hand tools
- ☀ OTDR
- ☀ Fiber optic camera
- ◄ Ground fault locator

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

Thermal Imaging			Ground Faults	Earth Ground	Software		Accessories		
Thermal imager	Temperature	Ground fault locator	Earth ground	Stakeless clamp	Fluke Connect™	TruTest™	Insulated hand tools	Test leads	
TI480 PRO	iSee	PTi120	GFL-1500	1625-2	1630-2				TLPV1, TLPV2

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, service panels 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 and electrical equipment 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.



I-V curve tracers

Best suited for:

- High-Efficiency Module Compatible: Up to 30A (PVA-1500HE2 only)
- 500 point I-V Curve: 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



Ground fault locators

Best suited for:

- Identifying the presence of active ground faults
- Pinpointing the location of active ground faults with an easy-to-follow traceable signal
- Reducing the amount of time it takes to locate active ground faults and decreasing exposure to electrical hazards with non-contact signaling



Fiber optic test and inspection

Best suited for:

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



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