



FLUKE®

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.

Solar Technician/Installer

Focus:

- Mechanical and electrical design
- Conduct commissioning
- Troubleshooting

Job needs:

- ▲ Irradiance meter
- Digital multimeter
- Clamp meter
- Temperature/Thermal
- Insulation and power quality
- Insulated hand tools
- ▼ Earth ground

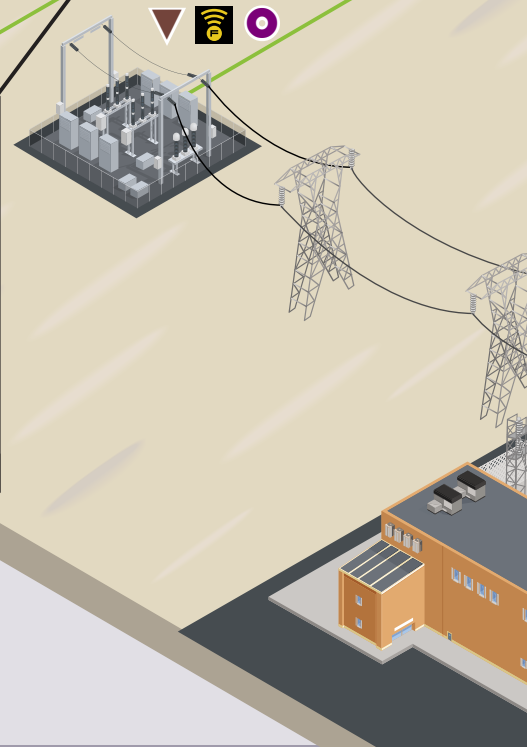
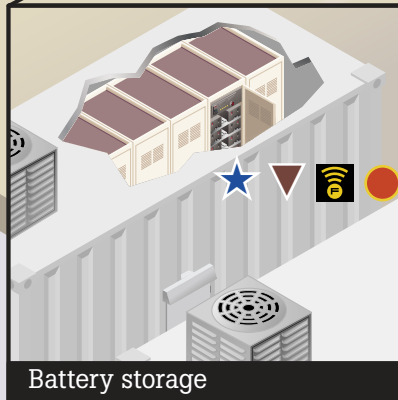
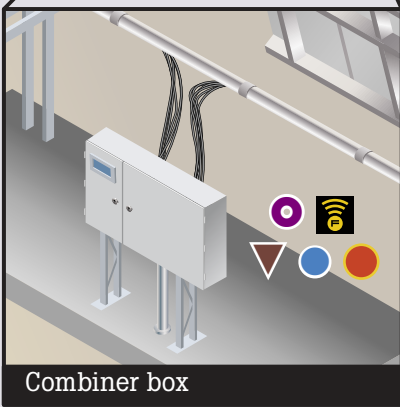
PV Designer/Electrician

Focus:










- Conduct commissioning
- Preventative maintenance
- Troubleshooting

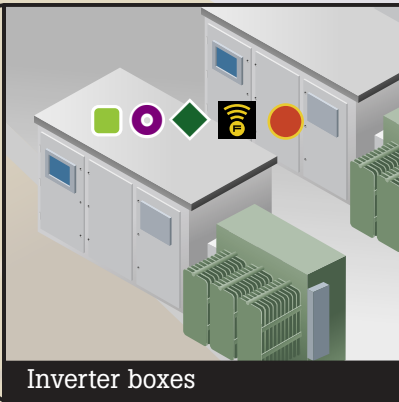
Job needs:

- ▲ Irradiance meter
- Digital multimeter
- Clamp meter
- Temperature/Thermal
- Insulation and power quality
- Insulated hand tools
- ▼ Earth ground



Solar energy solutions

Clean Tech	Electrical Measurement Tools					Insulation and Power Quality		
Irradiance meter	Digital multimeter	Digital multimeter	Thermal multimeter	Clamp meter	FC wireless multimeter kit	Insulation tester	Insulation tester	Insulation tester
								
IRR1-SOL	87V MAX	179	279 FC	393 FC	v3003 FC Kit	1507	1587 FC	1555 FC



Inverter boxes

Solar Advisor

Focus:

- Mechanical and electric design
- Troubleshooting

Job needs:

- ▲ Irradiance meter
- Digital multimeter
- Clamp meter
- Temperature/Thermal

Operations and Maintenance Manager
















Focus:

- Lead preventative maintenance
- Troubleshooting
- Monitoring

Job needs:

- ▲ Irradiance meter
- Digital multimeter
- Clamp meter
- Temperature/Thermal
- Insulation and power quality
- ★ Battery analyzer
- Insulated hand tools

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

	Temperature	Battery Analyzer	Earth Ground	Software	Accessories		
Power quality analyzer	Thermal imager	Temperature	Battery analyzer	Earth ground	Fluke Connect™	Insulated hand tools	Backpack
							
							
1777	Ti480 PRO	64 MAX	BT521	1625-2			Pack30

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



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



Insulated hand tools

Best suited for:

- 1000 v ac and 1500 v dc
- Critical part of NFPA 70E



Irradiance meters

Best suited for:

- Optimizing the placement of solar power systems and verify window efficiency
- Measuring solar output used to calculate overall energy, efficiency and placement of photovoltaic systems



Battery analyzers

Best suited for:

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



Fluke. Keeping your world up and running®

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