# **\$**FLIR



#### TRUE RMS 600 A SOLAR CLAMP METER

# FLIR CM65™

The CM65 is a rugged clamp meter designed to meet the challenges of solar installation, maintenance, and repair. This clamp meter comes with quick-connect MC4 test leads that improve the accuracy and safety of DC voltage measurements on solar panel strings and inverters. With the CM65, you can validate AC output and inverter efficiency and then store readings to the internal memory. Share data wirelessly via METERLiNK® or monitor measurements live on a smartphone running the FLIR Tools® mobile app. Photovoltaic (PV) installers can trust the CM65 as their go-to tool for accelerating and simplifying photovoltaic panel testing on new and existing solar panels.

www.flir.com/CM65



# ACCURACY FOR ELECTRICAL AND SOLAR APPLICATIONS

The precision testing capabilities you need to get the job done right the first time

- Trust AC voltage and current measurements from inverters and mains are accurate with True RMS
- Eliminate errors from residual ghost voltage using LoZ (low impedance) mode
- Get sharp ±1.5% accuracy when taking AC and DC current readings
- Capture the smallest voltage fluctuations when calibrating equipment using the CM65's millivolt function



### TOOLS YOU NEED TO WORK FASTER & SMARTER

This full-featured clamp meter with solar industrystandard connectors helps you pinpoint trouble fast

- Reduce the time needed for live/dead testing with included MC4 test leads
- Gain quick insights with Data Hold, Min/Max readings, and relative mode to zero the meter
- Troubleshoot string connections and components with a Continuity test mode
- Measure resistance, frequency and temperature
- Easily clamp around wires with the generous jaw (30 mm) and ergonomic design



## THE RIGHT TECH TO SIMPLIFY YOUR WORKFLOW

The CM65 is packed with tools to help you validate testing, document readings, and share results

- Take measurements, document results, and then share them on the go
- Identify trends and anomalies by data logging directly to the internal memory
- View readings right on your mobile device using the CM65's METERLINK® and the FLIR Tools® Mobile app –on the roof, on the ground, or anywhere on a job site

### SPECIFICATIONS

Basic measurement o	apabilities	
Safety category rating	CAT IV-600 V, CAT III-1000 V	
True RMS	Yes	
Features		
Data hold	Yes	
Min/Max	Yes	
Relative DC zero	Yes	
Loz mode (auto range)	Yes	
VFD	Yes	
Jaw size	30 mm (1.1 in) max	
Measurement and analysis	Range & resolution	Basic accuracy
AC current	60.00, 600.0 A	±1.5%
DC current	60.00, 600.0 A	±1.5%
AC voltage	60.00, 600.0, 1000 V	±0.7%
AC voltage (digital low pass filter - VFD)	600.0, 1000 V	±1%
LoZ mode AC voltage	600.0, 1000 V	±2.0%
AC voltage (mV mode)	60.00, 600.0 mV	±1.0%
DC voltage	60.00, 600.0, 1000 V	±1%
LoZ mode DC voltage	60.00, 600.0, 1000 V	±2.0%
DCV (mV mode)	60.00, 600.0 mV	±1%
Frequency	50.00 Hz to 400.0 Hz (ACA) 10.00 Hz to 400.0 Hz (ACV) 10.00 Hz to 500.0 Hz (ACV mV)	±1% ±1% ±1%
Resistance	600.0 k, 6.000 kΩ	±1.0%
Diode test	3.000 V	±0.9%
Temperature	-40°C to 400°C (-40°F to 752°F)	±1%
Continuity	< 30 Ω, 2 kHz buzzer	

Wireless connectivity	
<b>METERLINK®</b>	Yes
Display	
Screen	3-5/6 digits, 6000 counts
Backlight	Yes
Auto power off	10 minutes (default)
Sampling rate	5 readings / second
Overload indication	"OL" or "-OL"
Additional features	
Data Logging and storage	Automatically log readings every 10 seconds. Data log files can be transferred via USB port.
Memory	8 GB internal memory
Memory Operating temperature	8 GB internal memory 0°C to 60°C (32°F to 140°F)
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Operating temperature Operating relative	0°C to 60°C (32°F to 140°F) Maximum relative humidity 80% for temperature up to 31°C (88°F)
Operating temperature Operating relative humidity	0°C to 60°C (32°F to 140°F) Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F)
Operating temperature Operating relative humidity Storage temperature	0°C to 60°C (32°F to 140°F) Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F) -30°C to 60°C (-22°F to 140°F) <80% RH (with battery removed)
Operating temperature Operating relative humidity Storage temperature Drop test	0°C to 60°C (32°F to 140°F) Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F) -30°C to 60°C (-22°F to 140°F) <80% RH (with battery removed) 1 m (3.3 ft)
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Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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