Product Datasheet - Technical Specifications

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Website

http://www.flir.com

Customer support

http://support.flir.com

General description	
Part number	CM65
Part name	True RMS 600A Solar Clamp Meter
Description	True RMS 600A Solar Clamp Meter with METERLiNK

Basic Measurement Capabilities	
Safety category rating	CAT IV-600V, CAT III-1000V
True RMS	Yes
Frequency	Yes
Resistance	Yes
Continuity	Yes
Diode test	Yes
Temperature	Thermocouple

Display	
Type	Segment display
Display	3-5/6 digits 6000 counts
Backlight	Yes
Auto power off	15 minutes
Sampling rate	5 readings/sec
Overload indication	"OL" or "-OL"
Low battery indication	Yes

Wireless connectivity	
METERLiNK	Yes

Features	
Data hold	Yes
Min/Max	Yes
Relative DC zero	Yes
LoZ mode (Auto Range)	Yes

Features	
VFD	Yes
Jaw size	30 mm max.

Specifications	Range and resolution	Basic accuracy
AC current	60.00, 600.0 A	[50 to 100 Hz] ±(1.5% + 5d) [100 to 400 Hz] ±(2% + 5d)
DC current	60.00, 600.0 A	±(1.5% + 5d)
AC voltage	60.00, 600.0, 1000 V	[50 to 60 Hz] ±(0.7% + 3d) [60 to 400 Hz] ±(2% + 3d)
AC voltage (Digital Low Pass Filter - VFD)	60.00, 600.0, 1000 V	[10 to 100 Hz] ±(1% + 3d) [100 to 400 Hz] ±(10% + 3d)
LoZ mode AC voltage	60.0, 600.0, 1000 V	45 to 440 Hz ±(2.0% + 3d)
AC voltage (mV mode)	60.00, 600.0 mV	[50 to 60 Hz] ±(1.0% + 3d) [10 to 500 Hz] ±(2% + 3d)
DC voltage	60.00, 600.0, 1000 V	±(1% + 2d)
LoZ mode DC voltage	60.00, 600.0, 1000 V	±(2.0% + 3d)
DCV (mV mode)	60.00, 600.0 mV	±(1% + 2d)

Frequency	• [10 Hz ~ 50 kHz]
	  60.00 mV, 600.0 mV, 60.00 V
	
	• [10 Hz ~ 1 kHz]
	  600.0, 1000 V
	
	• [10 Hz ~ 400 Hz]
	  (VFD) 600.0, 1000 V
	
	• [50 Hz ~ 400 Hz]
	  60.00, 600.0 A
		±(0.03% + 2d)

Resistance	600.0, 6.000 KΩ	±(1.0% + 3d)
Diode test	3.000 V	±(0.9% + 2d)
Temperature	-40.0 to 400 °C -40.0°F to 752°F	±(1% + 1°C) ±(1% + 2°F)
Continuity	Between 30 and 480Ω the beeper can be on or off	

General	
Firmware update	Reserved USB for firmware update (Both device and BLE module)
Data logging and storage	Record measuring data
Memory	8 GB internal memory
Operating temperature	0 °C to 60 °C < 80% RH Decreasing linearly to 50% RH at 45°C
Storage temperature	-30 to 60 °C
Temperature coefficient	0.2 % spec acc (<18°C or >28°C)
Drop test	1 m
IP rating	IP40
Battery type	3x AA
Power consumption	100 mA DMM mode without backlight
Size (L x W x H)	251 x 86 x 41 mm
Weight	300 g (10.6 oz)

General	
Box Contents	Test lead set, MC4 test leads, quick start guide, manual, soft carrying pouch and type K thermocouple
Warranty	https://www.flir.com/testwarranty
Certifications	UL,CE, FCC
EAN-13	0793950370650
UPC-12	793950370650
Country of origin	Taiwan

Technical support	
Website	http://support.flir.com

Supplies & accessories:

- TA11; Protective case for CM7x and CM8x Series
- TA15; Universal Soft Sided Case
- TA55; AC Current Line splitter
- TA60; Thermocouple probe with adapter
- TA70; CAT IV Insulated Alligator Probes
- TA72; Large Universal Flex Current Probe Accessory
- TA74; Large Universal Flex Current Probe Accessory
- TA80; CAT IV Silicone Test Leads