

True rms, 3000 A

# FLEXIBLE AC POWER METER

Model : CWF-3300

ISO-9001, CE, IEC1010



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

**True RMS, 3000 A**

# FLEXIBLE AC POWER METER

* Meet IEC 1010 CAT III 1000 V safety requirement.
* 6000 counts A/D, high resolution.
* Double insulation coil.
* Voltage and Current are the True RMS value.
* ACV input impedance is 10 Mega ohms.
* True Power(KW) measurement.
* Apparent Power (KVA) measurement.
* Reactive Power (KVAR) measurement.
* Power Factor (PF) measurement.
* Voltage measurement range: 10 to 600 ACV.
* Current measurement range: 1 to 3000 ACA.
* Resistance measurement range: 20 KΩ
* Data hold .
* Auto shut off is available to save battery life.
* Safety Standard : IEC 1010, CAT IV 600V.
* Powered by AAA ( UM-4 ) DC 1.5 V X 2 batteries
* Built-in overload protection for most ranges.
* LSI circuit provides high reliability and durability.
* Uses durable, long-lasting components, enclosed in strong, light weight ABS-plastic housing.

**GENERAL SPECIFICATIONS**

Display	33.5 mm x18.7 mm LCD display
Measurement	ACV, ACA, KW , KVA , KVAR , PF Resistance, Continuity beeper
A/D counts no.	6000 counts.
Function	* " WATT " function can select : ACV, ACA, KW , KVA , KVAR , PF * " Ω " function can select : Resistance , Continuity beeper
Data hold	To freeze the display reading on the LCD display.
Power On/Off management	Auto power off or manual power off.
Selection	Select (ACV, ACA, KW , KVA , KVAR , PF )Function .
Polarity	Appears when measuring a PF value negative Capacitive loads are leading (current leads voltage)
Sampling time	Approx. 0.5 to 1 second.
Operating Temp.	0 °C to 50 °C (32 °F to 122 °F)
Operating humidity	Max. 80% RH.
Power supply	DC 1.5 V battery ( UM-4, AAA ) x 2
Power consumption	Approx. DC 25 mA.
Flexible Cable length	300 mm
Flexible Cable Diameter	8 mm
Dimension	290 x135 x 27.8 mm ( 11.4x 5.3 x 1.09 inch ).
Weight	208 g/0.46 LB ( w.o battery ).
Accessories Included	Red and Black Test Leads..... 1 Set Instruction Manual..... 1 PC

**ELECTRICAL SPECIFICATIONS (23± 5 °C)**

**AC Voltage ( True rms )**

Range	10 to 600 V
Resolution	0.1V
Accuracy	± ( 0.5% + 5d ) * Spec. are tested under 50/60 Hz.
Input impedance	10 M ohm.
Over load protection	750 ACV

**AC Current ( True rms )**

Range	999.9A/3000A
Resolution	0.1A /1A
Accuracy	1000 A Range ± ( 1% +8d ) 3000 A Range ± ( 1% +10d )
Linearity	± 0.2% of reading value * From 10% to 100% of range value.
Conductor position sensitivity	± ( 2% +15d ) of reading value * The measured conductor distance from center > 25mm (1")
External field influence	Increase ± 1.5% of range value max. * Recommend the distance between different " Flexible current probe " should > 200mm
Remark	* Accuracy is specified that the measured conductor's position is on the center of "Flexible current probe". * ACA specification be tested on sine wave 50/60 Hz. * * Measurement range : 1A to 3000A

**Active / Apparent / Reactive ( W/VA/VAR )**

Range	999.9/9.999K/99.99K/999.9K/1800K ( W / VA / VAR )
Resolution	0.1 / 0.001K / 0.01K / 0.1K / 1K ( W / VA / VAR )
Accuracy	± ( 1.5% +20d ) * Spec. are tested under 50/60 Hz. * Spec. are specified under following condition : PF 0.1 to 1.0 , PT = 1, ACV >10V, ACA > 5 A

**Power factor**

Range	0.00 to 1.00
Resolution	0.01
Accuracy	± 0.04
Remark	* Spec. are specified under following condition : ACV > 10V, ACA > 5 A

**OHMS**

Range	20 KΩ
Resolution	0.01 KΩ
Accuracy	± ( 1.5 % + 5d )
Over load protection	± 350 DCV, 350 ACV.

**Continuity Beeper**

Beeper will sound if measured resistance less than 20 ohm.
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\* Appearance and specifications listed in this brochure are subject to change without notice.