

True rms, 3000 A

# FLEXIBLE AC POWER METER



Model : CWF-3300

ISO-9001, CE, IEC1010

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LUTRON ELECTRONIC

*The Art of Measurement*

True RMS, 3000 A

# FLEXIBLE AC POWER METER

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- \* 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.

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### Continuity Beeper

Beeper will sound if measured resistance less than 20 ohm.

\* Appearance and specifications listed in this brochure are subject to change without notice.

1702-CWF-3300