



# IC-620

## PHOTOVOLTAIC (PV) CURRENT CLAMP 1000 V, 2000 A

FOR INDUSTRIAL INSTALLATIONS

FEATURES IMPEDANCE, CAPACITANCE,  
TEMPERATURE, FREQUENCY MEASUREMENTS,  
DIODE TEST AND EF (NCV) DETECTION

The current clamp with multimeter IC-620 is a CAT IV and CAT III instrument designed for high power environments. It is suitable to be used in photovoltaic solar plants (domestic and large scale), wind farms and battery storage systems.

The IC-620 current clamp includes TRMS AC and DC voltage and current measurements, power grid frequency with VFD, temperature measurement and null contact electrical fields detection.

It also includes **electrical components measurement** (impedance, capacity, diode test and continuity test), making it a true professional multimeter



**TRUE  
RMS**

### MEASUREMENTS INCLUDED IN THE IC-620 CURRENT CLAMP

- ✓ **Voltage:** Up to 1500 V<sub>dc</sub> / 1000 V<sub>ac</sub>
- ✓ **DC/AC current:** Up to 2000 A
- ✓ **Continuity test:** Audible tone
- ✓ **Diode test:** Audible tone
- ✓ **Impedance:** Up to 40 M $\Omega$
- ✓ **Frequency:** Up to 1999 Hz
- ✓ **Capacitance:** Up to 2000  $\mu$ F
- ✓ **Temperature:** From -50  $^{\circ}$ C to 1000  $^{\circ}$ C

### SPECIFICATIONS

- ✓ **Display:** Backlighted LCD screen
- ✓ **Contactless voltage detector:** Typical voltages 20 and 55 V
- ✓ **AC Variable Frequency Drive (VFD):** Up to 1000 V
- ✓ **Dimensions:** 97 (W.) x 264 (H.) x 43 (D.) mm
- ✓ **Functions:** Autocheck™ voltage/current, VFD-Cm VFD-Hz, Peak hold, Autorange relative zeroing, Hold
- ✓ **Power supply:** Batteries (2x1.5 V AA-size)

SPECIFICATIONS	IC-620 CURRENT CLAMP FOR INDUSTRIAL PHOTOVOLTAIC (PV) INSTALLATIONS
Display	3 <sup>5</sup> / <sub>16</sub> digit LCD screen, 6000 counts / 3 <sup>1</sup> / <sub>2</sub> digits and 1999 counts
Display functions	Autocheck™ voltage/current, VFD-Cm VFD-Hz, Peak hold, Auto-range relative zeroing, Hold
Polarity	Automatic
Refresh rate	5 measurements per second, nominal
Safety	Standards IEC/EN/BSEN/CSA_C22.2/UL for 61010-1 ed. 3.1 and 61010-2-032 ed. 4.0 CAT IV 1000 V, CAT III 1500 VDC
Transient protection	12 kV
EMC	EN61326-1:2006 (EN55022, EN61000-3-2/3-3/4-2/4-3/4-4/4-5/4-6/4-8/4-11)
Max conductor diameter	55 mm
Overload protection Clamps Test leads Other functions	Continuous 2000 A RMS 1650 VDC, 1100 VAC RMS 1500 VDC, 1000 VAC RMS
DC voltage Accuracy	Up to 1500 V ±(0.5% rdg. + 5 digits)
AC voltage (50 to 400 Hz) Accuracy	Up to 1000 V ±(1.2% rdg. + 5 digits)
AC+DC voltage (50 to 400 Hz) Accuracy	Up to 1000 V ±(1.4% rdg. + 7 digits)
AC Variable Freq. Drive (VFD) Accuracy	Up to 1000 V (with Low Pass filter) 10 to 20Hz: ±(4% rdg. + 80 digits) / 20 to 200Hz: ±(2% rdg. + 60 digits) / 200 to 400Hz: ±(7% rdg. + 80 digits)
DC/AC current DC accuracy AC accuracy (50 ~ 60 Hz) AC accuracy (40~50 / 60~400 Hz)	Up to 2000 A Up to 500A: ±(2% rdg. + 5 digits) / Up to 2000A: ±(3% rdg. + 5 digits) Up to 500A: ±(2.5% rdg. + 5 digits) / Up to 2000A: ±(3% rdg. + 5 digits) Up to 500A: ±(3% rdg. + 5 digits) / Up to 1000A: ±(3.5% rdg. + 5 digits) / Up to 2000 A: indicative
AC+DC current (with clamps) DC accuracy (50 ~ 60 Hz) AC accuracy (40~50 / 60~400 Hz)	Up to 1000 V ±(3% rdg. + 8 digits) Up to 1000A: ±(3.5% rdg. + 8 digits) / Up to 2000 A: indicative
Impedance Accuracy	Up to 40 MΩ Up to 60kΩ: ±(0.5%+5d) / Up to 600kΩ: ±(0.8%+5d) / Up to 6MΩ: ±(1.2%+5d) / Up to 40MΩ: ±(2.3%+5 d)
Diode/Continuity test	Test voltage 1 V. Accuracy ±(1% + 3 digits)
Contactless voltage detector Tolerance	Typical voltages 20 V and 55 V 10 to 36 V / 23 to 85 V
Capacitance Accuracy	Up to 2000 μF Up to 6μF: ±(2% rdg. + 5 díg.) / Up to 600μF: ±(3.5% rdg. + 5 díg.) / Up to 2000μF: ±(4% rdg. + 5 díg.)
Mains frequency	From 10 Hz to 1999 Hz
Temperature	-50 to 1000 °C. Accuracy ±(0.3% rdg. + 4 digits)
Power supply	2x1.5 V AA-size batteries
Mechanical features	97 (W.) x 264 (H.) x 43 (D.) mm / 640 g, including batteries
Included accessories	Pair of test leads, K-type thermocouple temperature probe + adapter, Carrying pouch