ELLIOTT ELECTRIC SUPPLY
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61744 CLAMP-PRO 600 AAC CLAMP METER W/NCV

IDEAL

Catalog Number	61744
Manufacturer	IDEAL
Description	Clamp Meter, 1.7% (AC Current);1.2% (AC Voltage);0.5% (DC Voltage);1% (Resistance) Accuracy, Alkaline, 600 A, 70 to 600 V ac, Battery Powered, 1.05 lb, 2 yr Warranty
Weight per unit	1.1 (lbs/each)
Product Category	Meters, Panel Instruments

Features

Accuracy	Stated Accuracy At 23 DEG C Plus Or Minus 5 DEG C, Less Than 75 PCT R.H
Resistance	400 OHM/4 KOHM/ 40 KOHM/400 KOHM At 1 PCT + 4 Digits Accuracy, 4 MOHM At 1.5 PCT + 4 Digits Accuracy, 40 MOHM At 3 PCT + 5 Digits Accuracy
Voltage Rating	400 to 600VAC/DC
Battery	400 HR Continuous With Alkaline (61-744), 250 HR Continuous With Alkaline (61-746) (2) 1.5 V "AAA" Batteries (NEDA R03) Includes An Isolated Battery Compartment
Dimensions	8 IN Height X 2.600 IN Width X 1.500 IN Depth
Display	3-3/4 Digit LCD With 4000 Counts

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Descriptions

Description	CLAMP-PRO 600 AAC CLAMP METER W/NCV
Features	Measures up to 600A ACNon-contact voltage indicator (70V-600VAC)ContinuityTapered jaws with hook tipAuto/manual rangingData holdAuto power offLow battery indicator
Long Description	IDEAL, Clamp Meter, Clamp-Pro, 600 Amp Clamp Meter, Voltage Rating: 400 to 600VAC/DC, Resistance: 400 OHM/4 KOHM/ 40 KOHM/400 KOHM At 1 PCT + 4 Digits Accuracy, 4 MOHM At 1.5 PCT + 4 Digits Accuracy, 40 MOHM At 3 PCT + 5 Digits Accuracy, Accuracy: Stated Accuracy At 23 DEG C Plus Or Minus 5 DEG C, Less Than 75 PCT R.H, Display 3-3/4 Digit LCD With 4000 Counts
Product Type	Clamp Meter, Ideal, Clamp-Pro, Cat Iii-600V, Ul 61010 Listed, Ce,
Special Features	Features: Measures Up To 600AAC; Non-Contact Voltage Indicator (70V - 600VAC); Tapered Jaws With Hook Tip; Auto/Manual Ranging; Data Hold; Auto Power Off; Low Battery Indicator; CAT III- 600V; 2-Year Warranty; Auto/Manual Ranging Clamp Meter; Non-Contact Voltage (70-600VAC); Measures 600 AAC Current; Measures AC/DC Voltage And Resistance; Audible Continuity; Data Hold; Auto Power Off; Low Battery Indicator; Compact Jaws For Reaching Into Tight Spaces; Electronic Overload Protection On All Ranges; 61-744 Mo
Extra Long Description	IDEAL 61-744 Clamp Meter,Ideal,Clam

Manufacturer Information

Brand	Ideal
	Ideal Industries
GTIN	00783250682386
UPC	783250

Taxonomies, Classifications, and Categories

Category Description	TEST EQUIPMENT, TESTERS AND MULTIMETERS
Type	600 Amp Clamp Meter

Packaging

Carton	1
Weight Per Each	1.1 (lbs/each)

Uses, Certifications, and Standards

Temperature Rating	32 DEGF To 122 DEGF (0 DEGC To 50 DEGC) At Less Than 70 PCT R.H Operating Temperature, -4 DEGF To 140 DEGF (-20 DEGC To 60 DEGC) At Less Than 80 PCT R.H Without Battery Storage Temperature
Standard	CAT III-600V, UL 61010 Listed, CE, C 12966

Industrial Clamp Meters

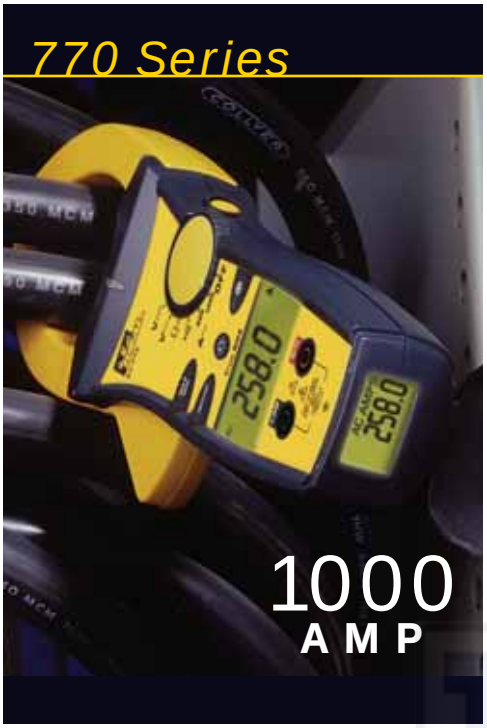
- ***660 and 1000 amp clamps for a variety of industrial and commercial environments***
- ***Unique TightSight™ bottom display makes hard-to-reach measurements convenient***
- ***New easy-to-read displays feature large numbers and green glowing backlight***
- ***CAT IV rating for maximum safety***
- ***Selectable audible voltage presence warning on all functions***



CAT IV 600V

CAT III 1000V

Industrial Clamp Meters



IDEAL developed the 770 Series to provide electricians with all the features they need for measuring in 1000A environments and industrial settings. The unique backlit display in the bottom of the clamp is an industry first. It enables an electrician to view measurement results in dark, bright or tight locations without difficulty or safety risk. Electricians have a choice between the 61-772 for testing large AC current, or the 61-774 for AC/DC testing capabilities. Both are True RMS and feature large 2-inch jaws for getting around multiple phase conductors.

770 Series Common Features:

- Measures up to 1000AAC
- TightSight™ bottom display
- Selectable audible voltage presence warning on all functions
- Tapered jaws with hook tip
- True RMS
- Max/min
- Inrush current
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator
- Includes leads, alligator clip and case
- CAT IV – 600V rating; CAT III – 1000V rating
- 2-year warranty



61-772



61-774 features:

- 1000A DC current measurements
- Capacitance



For everything from routine current measurements to troubleshooting industrial motors and adjustable speed drives (ASDs), three 760 Series meters cover every scenario up to 660A. With an exclusive backlit TightSight™ display, the 760 Series brings function and ease-of-use together. The 61-764 is great for basic current measurements, but also has an array of more extensive features like a bold, bright backlit display and selectable auto power off. With added capabilities like True RMS and 20-400Hz frequency measurement, the 61-766 gives electricians a level of certainty when measuring circuits with ASDs. And for those who work with DC motors and circuits, the 61-768 is the right choice.

760 Series Common Features:

- Measures up to 660AAC
- TightSight™ bottom display
- Selectable audible voltage presence warning on all functions
- Tapered jaws with hook tip
- Max/min
- Inrush current
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator
- Includes leads, alligator clip and case
- CAT IV – 600V rating; CAT III – 1000V rating
- 2-year warranty



61-764



61-766 features:

- True RMS
- Capacitance
- Frequency measurement via clamp head
- 66AAC low range



61-768 features:

- 660A DC current measurements
- True RMS

N12966



Safety First!

The complete line of industrial clamps from IDEAL was designed to set a new standard for safety technology. It starts with the revolutionary TightSight™ display. It allows an electrician to keep his head and face out of potentially dangerous panels while viewing the measurement. The high voltage indicator is another feature not to be taken for granted. It indicates the presence of voltage even with the dial set to the wrong function. The CAT III and IV ratings, rugged construction and UL listing should give every electrician the confidence to go about the job without worrying about equipment safety.

Description	Cat No.
660AAC	61-764
660AAC w/TRMS, Capacitance, Frequency, 66AAC Low Range	61-766
660AAC w/TRMS, DC Current	61-768
1000AAC w/TRMS	61-772
1000AAC w/TRMS, DC Current, Capacitance	61-774
Industrial Test Lead Kit	TL-435

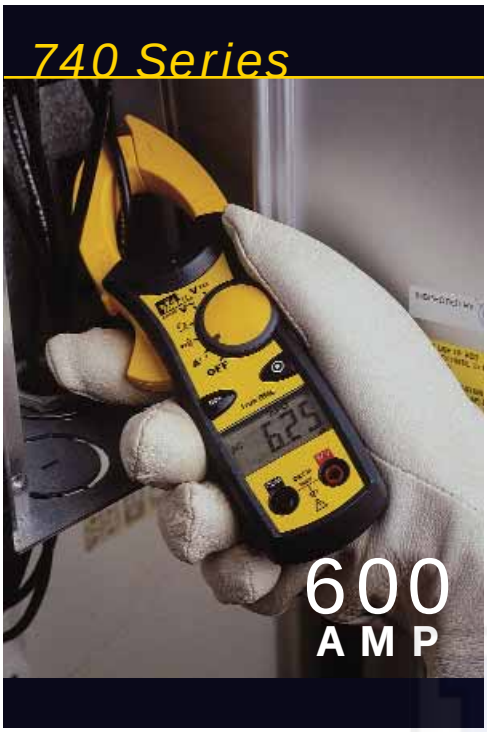
	Range & Resolution			
760 Series	61-764	61-766	61-768	Accuracy
AC Current	66.00/660.0 A		660.0 A	1.7%
DC Current	–	–	660.0 A	1.5%
AC Voltage	660m/6.600/66.00/660.0/750 V			1.2%
DC Voltage	660m/6.600/66.00/660.0/1000 V			0.5%
Resistance	660.0/6.600k/66.00k/660.0k/4.000M/10.00M Ω			1.0%
Capacitance	–	6.600µ/66.00µ/660.0µ F	–	3.0%
Frequency	–	20 - 400 Hz Sensitivity: ≥5A for 20-100 Hz ≥10A for 100-400 Hz	–	0.1%

Jaw Size 1.42” (36 mm)

	Range & Resolution		
770 Series	61-772	61-774	Accuracy
AC Current	660.0/1000 A		1.7%
DC Current	–	660.0/1000 A	1.5%
AC Voltage	660m/6.600/66.00/660.0/750 V		1.2%
DC Voltage	660m/6.600/66.00/660.0/1000 V		0.5%
Resistance	660.0/6.600k/66.00k/660.0k/ 4.000M/10.00M Ω		1.0%
Capacitance	–	6.600µ/66.00µ/ 660.0µ F	3.0%

Jaw Size 2” (51 mm)

600 Amp Clamp Meters



For electricians looking for a dependable, affordable 600A clamp meter, it's tough to beat the IDEAL 740 Series. From a non-contact voltage indicator at the tip of the jaws, to a large easy-to-read display, the 740 Series clamps make current measurements simple and reliable. The compact frame fits comfortably in the hand and makes it convenient in tight panels. And for those working in harmonic environments, the 61-746 features True RMS measurements.

740 Series Common Features:

- Measures up to 600AAC
- Non-contact voltage indicator (70V-600VAC)
- Tapered jaws with hook tip
- Auto/manual ranging
- Data hold
- Auto power off
- Low battery indicator
- Includes leads and case
- CAT III – 600V rating
- 2-year warranty



61-744



61-746 features:

- True RMS

Description	Cat No.
600AAC Clamp Meter w/NCV	61-744
600AAC Clamp Meter w/NCV, TRMS	61-746

740 Series	Range & Resolution 61-744 & 61-746	Accuracy
AC Current	40.00/400.0/600A	1.7%
AC Voltage	400.0/600 V	1.2%
DC Voltage	400.0/600 V	0.5%
Resistance	400.0/4.000k/40.00k 400.0k/4.000M/40.00M Ω	1.0%

Jaw Size 1.25" (32 mm)



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