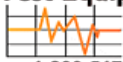


# HIOKI

## AC/DC CURRENT PROBE CT6844/ CT6845/ CT6846

**Test Equipment  
Depot**  
  
1-800-517-8431

99 Washington Street  
Melrose, MA 02176  
Phone 781-665-1400  
Toll Free 1-800-517-8431

 Visit us at [www.TestEquipmentDepot.com](http://www.TestEquipmentDepot.com)

# 0.3%

Accuracy



# 500/1000A

Ergonomic clamp design delivers  
single-handed, one-touch opening  
and closing

### CT6844

- 500A AC/DC
- DC to 200kHz
- $\phi$  20mm (0.79 in)

### CT6845

- 500A AC/DC
- DC to 100kHz
- $\phi$  50mm (1.97 in)

### CT6846

- 1000A AC/DC
- DC to 20kHz
- $\phi$  50mm (1.97 in)



Compact form lets you  
easily measure even in  
tangled wiring



Large diameter for clamping  
even thick cables and double wiring



CE

[www.valuetronics.com](http://www.valuetronics.com)

# Consistent, high-precision high-current testing across a wide temperature range

Ideal for thermostatic chambers and engine rooms

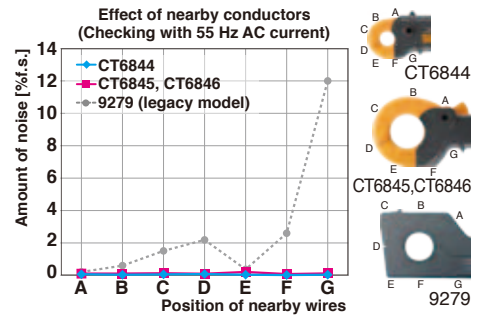
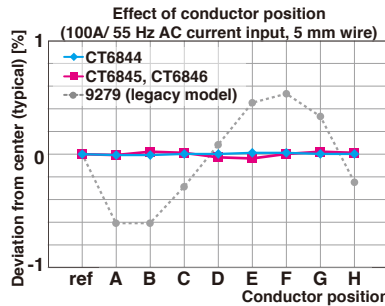
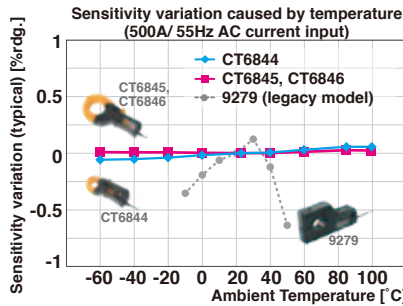
The CT6844/CT6845/CT6846 are ideal for operational evaluations of devices inside equipment that is subject to extreme temperature changes, offering tough, high-precision testing.

Reduced effect of the position of the conductor in the clamp

Conductor position changes within the clamp core have little effect on measured values.

Reduced effect of noise from nearby wires

Minimal effect is observed from current in nearby wires when measuring in crowded wiring.

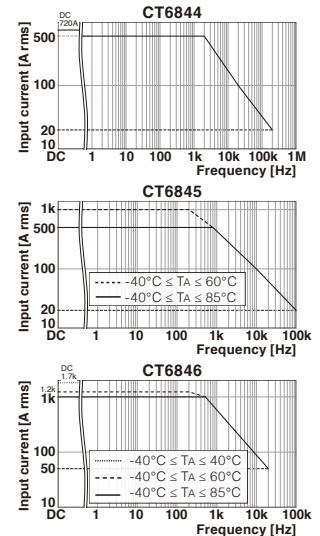


## Specifications

(Accuracy guaranteed for 1 year; Post-adjustment accuracy guaranteed for 1 year)

|                                                       | CT6844                                                                                            | CT6845                                                                                      | CT6846                                                                                      |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                                       |                  |            |           |
| Rated primary current                                 | 500 A AC/DC                                                                                       |                                                                                             | 1000 A AC/DC                                                                                |
| Frequency characteristics                             | DC to 200 kHz                                                                                     |                                                                                             | DC to 20 kHz                                                                                |
| Measurable conductor diameter                         | φ20 mm (0.79 in) or less                                                                          |                                                                                             | φ50 mm (1.97 in) or less                                                                    |
| Output voltage                                        | 4 mV/A                                                                                            |                                                                                             | 2 mV/A                                                                                      |
| Basic accuracy (50/60 Hz)                             | Amplitude accuracy: ±0.3% rdg. ±0.01% f.s.                                                        |                                                                                             | Phase accuracy: ±0.1 deg                                                                    |
| Basic accuracy (DC)                                   | Amplitude accuracy: ±0.3% rdg. ±0.02% f.s.                                                        |                                                                                             |                                                                                             |
| Temperature and humidity range of guaranteed accuracy | 0°C to +40°C (32°F to 104°F), 80% RH or less (no condensation)                                    |                                                                                             |                                                                                             |
| Operating temperature and humidity                    | -40°C to +85°C (-40°F to 185°F), 80% RH or less (no condensation)                                 |                                                                                             |                                                                                             |
| Effect of conductor position                          | ±0.1% rdg. or less                                                                                |                                                                                             | ±0.2% rdg. or less                                                                          |
| Effect of external magnetic fields                    | 100 mA or less (Scaled value, in a DC and 60 Hz magnetic field of 400 A/m)                        |                                                                                             | 150 mA or less (Scaled value, in a DC and 60 Hz magnetic field of 400 A/m)                  |
| Magnetic susceptibility                               | 75 mA or less (Scaled value, after 500 A AC/DC input)                                             |                                                                                             | 150 mA or less (Scaled value, after 1000 A AC/DC input)                                     |
| Effect of common-mode voltage                         | 0.05% f.s. or less (1000 Vrms, 50/60Hz DC)                                                        |                                                                                             |                                                                                             |
| Dimensions & Mass                                     | 153W × 67H × 25D mm (6.02"W × 2.64"H × 0.98"D), 400 g (14.1 oz), cord length 3 m (9.84 ft)        | 238W × 116H × 35D mm (9.37"W × 4.57"H × 1.38"D), 860 g (30.3 oz), cord length 3 m (9.84 ft) | 238W × 116H × 35D mm (9.37"W × 4.57"H × 1.38"D), 990 g (34.9 oz), cord length 3 m (9.84 ft) |
| Accessories                                           | Instruction manual x1 (for each of Japanese, English and Chinese), Mark band x6, Carrying case x1 |                                                                                             |                                                                                             |

Derating  
(TA : Ambient temperature)

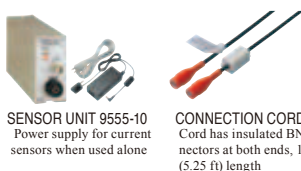


## Compatible power meters

| AC/DC CURRENT PROBE<br>Order Code                | Connector type | POWER ANALYZER<br>PW6001 | POWER ANALYZER<br>3390 | POWER HITESTER<br>3193-10 | POWER HITESTER<br>3334-10 | Connector types                                                                       |
|--------------------------------------------------|----------------|--------------------------|------------------------|---------------------------|---------------------------|---------------------------------------------------------------------------------------|
| CT6844 (500A AC/DC).....                         | PL23           | ✓                        | ✓                      | ✓                         | ✓                         |  |
| CT6844-05 (500A AC/DC).....                      | ME15W          | ✓                        | ✓                      | ✓                         | ✓                         |                                                                                       |
| CT6845 (500A AC/DC).....                         | PL23           | ✓                        | ✓                      | ✓                         | ✓                         |  |
| CT6845-05 (500A AC/DC).....                      | ME15W          | ✓                        | ✓                      | ✓                         | ✓                         |                                                                                       |
| CT6846 (1000A AC/DC).....                        | PL23           | ✓                        | ✓                      | ✓                         | ✓                         |                                                                                       |
| CT6846-05 (1000A AC/DC).....                     | ME15W          | ✓                        | ✓                      | ✓                         | ✓                         |                                                                                       |
| Other products in the AC/DC Current Probe series |                |                          |                        |                           |                           |                                                                                       |
| Order Code                                       |                |                          |                        |                           |                           |                                                                                       |
| CT6841 (20A AC/DC).....                          | PL23           | ✓                        | ✓                      | ✓                         | ✓                         |                                                                                       |
| CT6841-05 (20A AC/DC).....                       | ME15W          | ✓                        | ✓                      | ✓                         | ✓                         |                                                                                       |
| CT6843 (200A AC/DC).....                         | PL23           | ✓                        | ✓                      | ✓                         | ✓                         |                                                                                       |
| CT6843-05 (200A AC/DC).....                      | ME15W          | ✓                        | ✓                      | ✓                         | ✓                         |                                                                                       |

## Options

For output to oscilloscope/recorder



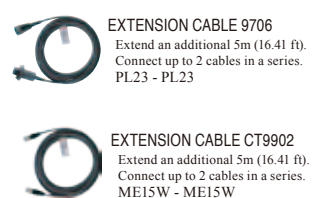
SENSOR UNIT 9555-10  
Power supply for current sensors when used alone

CONNECTION CORD L9217  
Cord has insulated BNC connectors at both ends, 1.6 m (5.25 ft) length

Sensor connector conversion



Extension cables



Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

**HIOKI**  
HIOKI E. E. CORPORATION

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176

TestEquipmentDepot.com

All information correct as of Dec. 25, 2015. All specifications are subject to change without notice.

CT6844E3-5ZE Printed in Japan

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