

# 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  
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# 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)



CE



Compact form lets you easily measure even in tangled wiring



Large diameter for clamping even thick cables and double wiring



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

Ideal for thermostatic chambers and engine rooms

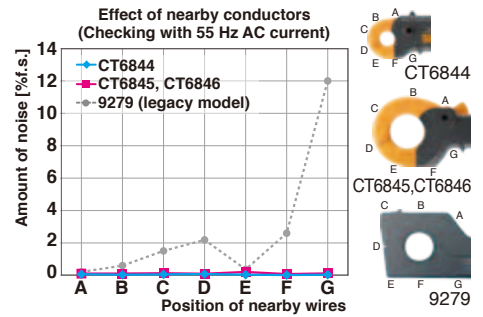
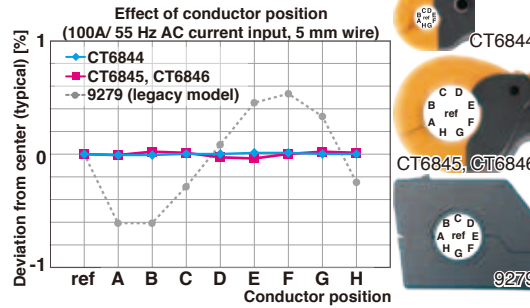
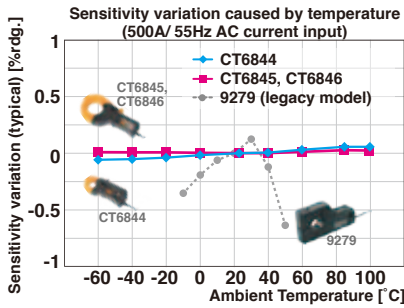
Reduced effect of the position of the conductor in the clamp

Reduced effect of noise from nearby wires

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.

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

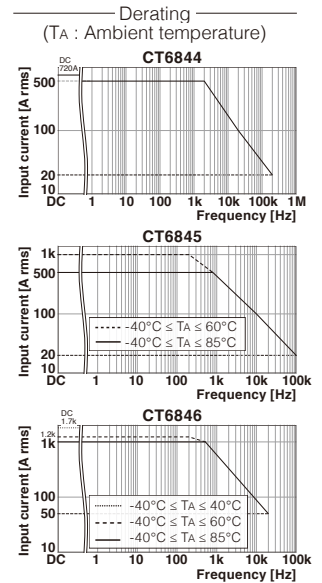
Minimal effect is observed from current in nearby wires when measuring in crowded wiring.



## 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		



## Compatible power meters

AC/DC CURRENT PROBE Order Code	Connector type	POWER ANALYZER PW6001	POWER ANALYZER 3390	POWER HITESTER 3193-10	POWER HITESTER 3334-10	
CT6844 (500A AC/DC).....	PL23		✓	✓	✓	Connector types  
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	✓				
<b>Other products in the AC/DC Current Probe series</b>						
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

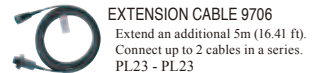


CONNECTION CORD L9217  
Cord has insulated BNC connectors at both ends, 1.6 m (5.25 ft) length

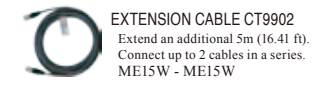
Sensor connector conversion



Extension cables



EXTENSION CABLE 9706  
Extend an additional 5m (16.41 ft).  
Connect up to 2 cables in a series.  
PL.23 - PL.23



EXTENSION CABLE CT9902  
Extend an additional 5m (16.41 ft).  
Connect up to 2 cables in a series.  
ME15W - ME15W

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

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

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