

# HIOKI

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

**Test Equipment  
Depot**  
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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



CE

Compact form lets you easily measure even in tangled wiring



CE

Large diameter for clamping even thick cables and double wiring



CE

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

Ideal for thermostatic chambers and engine rooms

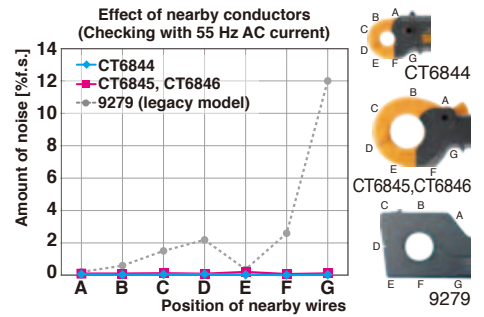
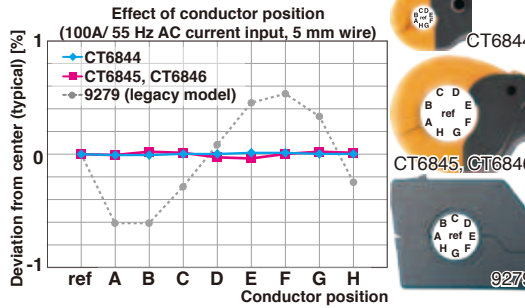
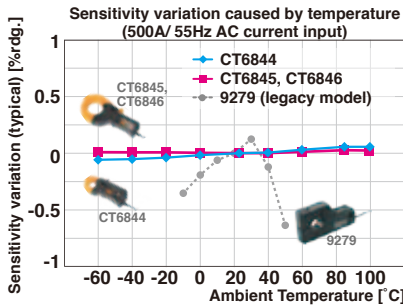
Reduced effect of the position of the conductor in the clamp

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.

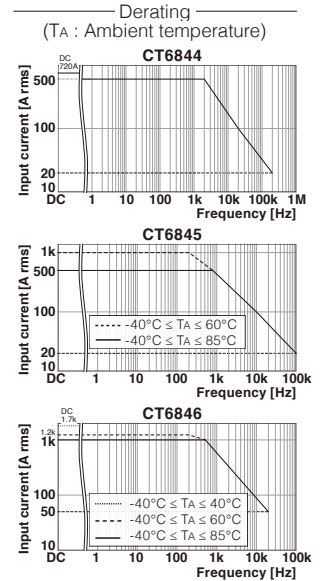
Minimal effect is observed from current in nearby wires when measuring in crowded wiring.



## Specifications

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

	CT6844	CT6845	CT6846
Rated primary current	500 A AC/DC	500 A AC/DC	1000 A AC/DC
Frequency characteristics	DC to 200 kHz	DC to 100 kHz	DC to 20 kHz
Measurable conductor diameter	φ20 mm (0.79 in) or less	φ50 mm (1.97 in) or less	φ50 mm (1.97 in) or less
Output voltage	4 mV/A	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		Amplitude accuracy: ±0.3% rdg. ±0.02% f.s.
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	±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)	150 mA or less (Scaled value, after 1000 A AC/DC input)
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)	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	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	✓				
<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

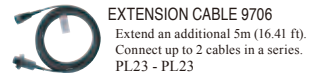


CONNECTION CORD L9217  
Cord has insulated BNC connectors at both ends, 1.6 m (5.25 ft) length

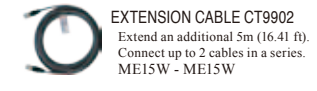
Sensor connector conversion



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

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

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