ΗΙΟΚΙ

CURRENT SENSOR Series CURRENT PROBE Series



Application-optimized Current Sensors and Current Probes



Compact, high-precision clamp current sensors and probes CT6830 / CT6831 / CT7812 / CT7822



Precision fits in your hand

NEW

AC/DC CURRENT PROBE CT6830, CT6831 AC/DC CURRENT SENSOR CT7812, CT7822



1000

You can see how small it is in the video.

Specification

Rated 2 A (rms) CT6830 / CT7812

Specification	
Maximum peak current	4.3 A peak
Output rate	1 V/A (CT6830) , 0.1 V/A (CT7812)
Measurement Frequency Range	100 kHz
Measurement accuracy	±0.05% rdg. (±0.1% f.s.)

Rated 20 A (rms) CT6831 / CT7822

HIOKI CT7812 AC/DC CURRENT SENSOR

DANGER

2A

3

Specification	
Maximum peak current	43 A peak
Output rate	0.1 V/A (CT6831) , 0.01 V/A (CT7822)
Measurement Frequency Range	100 kHz
Measurement accuracy	CT6831 : ±0.3% rdg. (±0.01% f.s.) CT7822 : ±0.3% rdg. (±0.05% f.s.)

Output terminal

CT6830 / CT6831

HIOKI ME 15 W (12-pin terminal)



CT7812 / CT7822

HIOKI PL 14



The future standard, in a compact size.

The CT6830, CT6831, CT7812, and CT7822 were developed with the concept of "easily clamping narrow wiring." As the world's smallest zero-flux gate AC/DC current probes and sensors, they offer high precision and lightweight design.

- High Sensitivity Detects Leakage Currents as Low as 10mA
- Easy Clamping in Tight Spaces Features a Slide Mechanism
- Wide Temperature Range Operates from -40°C to +85°C

Core diameter **Փ**5 mm or less HIOKI CT7812 24

Application

Challenge

Crowded circuit boards in switching power supplies make probe attachment difficult.

Solved with CT6830 / CT6831

Easy and quick to install in tight spaces inside devices.

The compact slide design allows for easy clamping of dense wiring during the design phase, enabling accurate current measurements. This helps identify power loss causes early, reducing overall power consumption and supporting the efficient development of compact devices



The ideal choice for waveform observation

Waveform Recording Power measurement





MEMORY HICORDER MR6000

POWER ANALYZER POWER ANALYZER PW3390

4 channel

Channel-specific wave-

Power supplies for Current Sensors, when use with oscilloscope

 1 channel · Waveform output • RMS output 0 (CT9556) • BNC terminal



PW8001

SENSOR UNIT CT9555, CT9556



Challenge

Needs to monitor the current consumption of the ECU and detect any abnormal behavior

Solved with CT7812 / CT7822

You can simultaneously measure the current consumption of multiple ECUs inside the completed vehicle.

Accurate measurement of battery current is crucial for fuel efficiency evaluation, but pinpointing areas of excessive current can be challenging. Multiple compact, high-precision current sensors can quickly identify and address the sources of excess current.



Best combination for data logging

Multi-channel data logging







MEMORY HILOGGER LR8450-01 (Wireless LAN model

WIRELESS CURRENT CURRENT MODULE MODULE LR8536 U8556

Special order: Single-channel current measurement*



DISPLAY UNIT

CM7290

Power supply for current sensor Measure DC, AC, DC+AC, Hz Output WAVE, RMS, PEAK, FREQ

> *When using with CT7812 or CT7822, please purchase a special order CM7290. If you already own a CM7290, modifications to the main unit will be required.

Application-optimized current sensors and current probes

Hioki offers lineup of current sensors and current probes to accommodate current measurement requirements in a variety of applications, from development and evaluation in advanced fields to quality control of commercial power supplies.



Evaluating power conversion efficiency in EVs

Evaluate vehicles' overall power conversion efficiency in order to develop automobiles that run further with less energy.

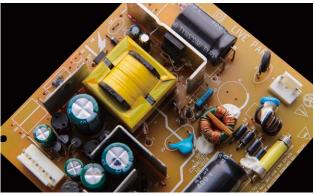
CT6904A, CT687xA series + PW8001



Evaluating the fuel (energy) efficiency of finished vehicles

Measure fuel efficiency based on the international standard (WLTP) in order to evaluate the fuel efficiency of finished vehicles.

CT684xA series + PW3390



Evaluating power devices in power supply circuits

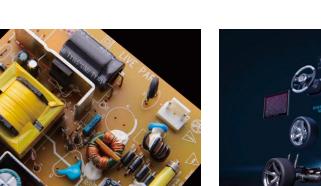
Observe the inputs and outputs of the current waveform in order to evaluate whether power devices are providing the required level of performance.

CT67xx series, 327x series + MR6000



Maintaining power quality

Continuously monitor power quality and analyze the causes of power supply issues in order to maintain stable power quality.





Evaluating systems used to control accessory components in automobiles

Observe current waveforms of various magnitudes that fluctuate depending on the state of the device in question, including dark current, inrush current, and drive current, in order to evaluate accessory control.

CT67xx series, 327x series + MR6000

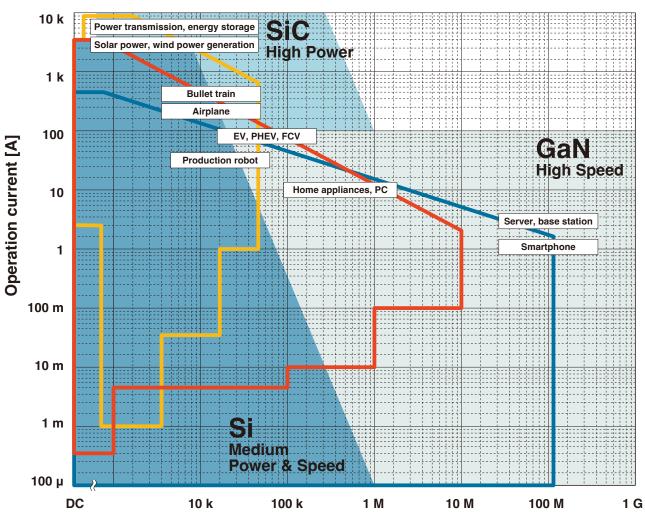


Assessing the power consumption of equipment and systems

Assess the power consumption of devices and systems in order to pursue energy-saving activities and achieve the goals of the UN's Sustainable Development Goals (SDGs).

CT7xxx series, CT9667-0x series + PW3365

CT7xxx series, CT9667-0x series + PQ3198, PQ3100



Applications by operating current and operating frequency

Operation frequency [Hz]

High-accuracy	Q	pass-through types	- EV inverter systems R&D - Assessment of reactor and transformer losses
measurement		clamp types	 WLTP-compliant fuel economy (electricity cost) performance testing Measurement of current consumption of ECUs and electrical components
	-	High-sensitivity observation	 Evaluation of automotive accessory control Evaluation of power components in power supply circuits
Waveform observation	-00	Observation of minuscule currents	 Evaluation of automotive accessory control Development and evaluation of power-saving devices such as wearables
	20	Observation of large currents	 Fluctuations in fluctuation of load currents of large industrial equipment Measurement of inrush currents flowing when starting an engine
		Measurement of load currents	- Assessment of power consumption
Grid power quality control		Measurement of large currents	 Periodic inspection of power supply equipment and monitoring of power quality
		Measurement of leakage currents	 Detection of intermittent electrical leaks Search for the locations of electrical leaks

Current Sensors Current Probes Lineup

Hioki's first current sensor was a magnetic current sensor developed in-house in 1971. We've pursued sensing technologies over the past 50 years, providing a variety of current sensors for the full range of measurement applications.

High-accuracy measurement

These models, rated for 20 A to 2000 A, measure currents in a frequency band from DC to 10 MHz with a high degree of accuracy. They're used in applications that require high measurement accuracy, for example evaluation of inverter equipment and evaluation of loss in reactors and transformers.

Pass-through types

Pass-through sensors deliver the ultimate level of accuracy and stability. With a broadband measurement at up to 10 MHz and measurement of large currents of up to 2000 A, they're used in state-of-the-art research and development.



EV inverter system R&D

Evaluation of reactor and transformer losses

Clamp types

Clamp-type sensors are quick and easy to connect, and used for testing finished products, an application where it is difficult to cut wires. Capable of functioning at temperatures from -40°C to 85°C, they're used in high-temperature environments such as engine compartments.



WLTP-compliant fuel economy(electricity cost) performance testing

Measurement of current consumption of ECUs and electrical components

Direct-wired types

Directly wired current sensors deliver world-class accuracy and frequency band characteristics (50 A model) by Hioki's proprietary DCCT (Direct Connection Current Transducer) method



Evaluation of reactor and transformer losses

Evaluation of inverters in energy-saving household appliances

Waveform observation

These models, rated from 0.5 A to 500 A, measure current waveforms in a frequency band of DC to 120 MHz. They're used to analyze fluctuations during operation of various types of equipment operation, including standby current, inrush current, load current, and control current.

High-sensitivity observation

These models can measure current waveforms that range in magnitude from miniscule to large. With the high-sensitivity ranges and an output rate of 10 V/A, minuscule currents that fluctuate at high speeds can be clearly observed.



Evaluation of automotive accessory control

Evaluation of power devices in power supply circuits

Observation of minuscule currents

These models can measure miniscule current waveforms, including control currents flowing in control circuits and fluctuations in the current consumption of compact electronic devices that operate at small currents.



Evaluation of automotive accessory control

Development and evaluation of power-saving devices such as wearables

Observation of large currents

These models can measure large current waveforms, including fluctuations in load current from the operation of industrial equipment and inrush currents when power supplies are activated.





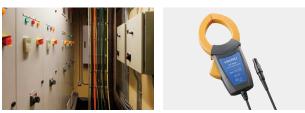
Fluctuations of load currents of large industrial equipment Measurement of inrush currents flowing at engine start

Grid power quality control

These models are engineered primarily to measure current at commercial frequencies (50/60 Hz). They're used in applications such as power quality checks and power consumption assessments. We offer models with specifications suitable for a range of measurement locations, from leakage currents to large currents.

Measurement of load current

These sensors are primarily designed to measure commercial power supplies. They're used to monitor and analyze power quality and to measure power consumption.



Assessment of power consumption

Periodic inspection of power supply equipment and monitoring of power quality

Measurement of large currents

These sensors can measure large currents of up to 6000 A. Their slim, flexible form make them easy to insert into narrow gaps and between wires.



Assessment of power consumption

Periodic inspection of power supply equipment and monitoring of power quality

Measurement of leakage currents

These sensors are used to measure minuscule currents such as leakage currents.

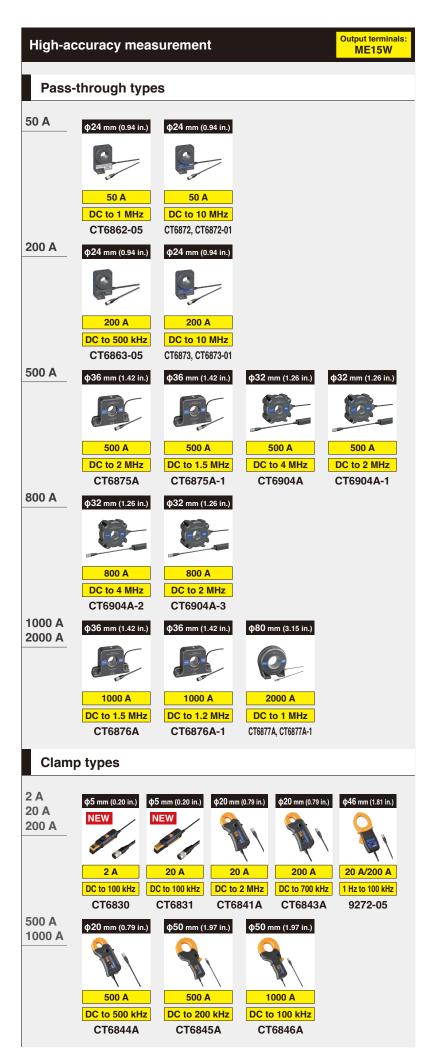




Detection of intermittent electrical leaks

Search for the locations of electrical leaks

7



Waveform observation BNC Minuscule current waveforms can be observed more clearly by generating output at 10 V/A Output rate: 1 V/A Output rate: 10 V/A 10 West Measurement range Model Output rate 10 V/A 0.5 A CT6710 5 A 1 V/A CT6711 30 A 0.1 V/A CT6700 5 A 1 V/A CT6701 3273-50 30 A 0.1 V/A 3276 3274 150 A 0.01 V/A 3275 500 A 0.01 V/A **High-sensitivity observation** 0.5 A Φ5 mm (0.20 in.) Φ5 mm (0.20 in.) 5 A 30 A 0.5 A, 5 A, 30 A 0.5 A, 5 A, 30 A DC to 50 MHz DC to 120 MHz CT6710 CT6711 **Observation of minuscule currents** 5 A φ5 mm (0.20 in.) φ5 mm (0.20 in.) 5 A 5 A DC to 120 MHz DC to 50 MHz CT6700 CT6701 **Observation of large currents** 30 A φ5 mm (0.20 in.) φ5 mm (0.20 in.) 30 A 30 A DC to 50 MHz DC to 100 MHz 3273-50 3276 150 A 500 A φ20 mm (0.79 in.) φ20 mm (0.79 in.)

150 A

DC to 10 MHz

3274

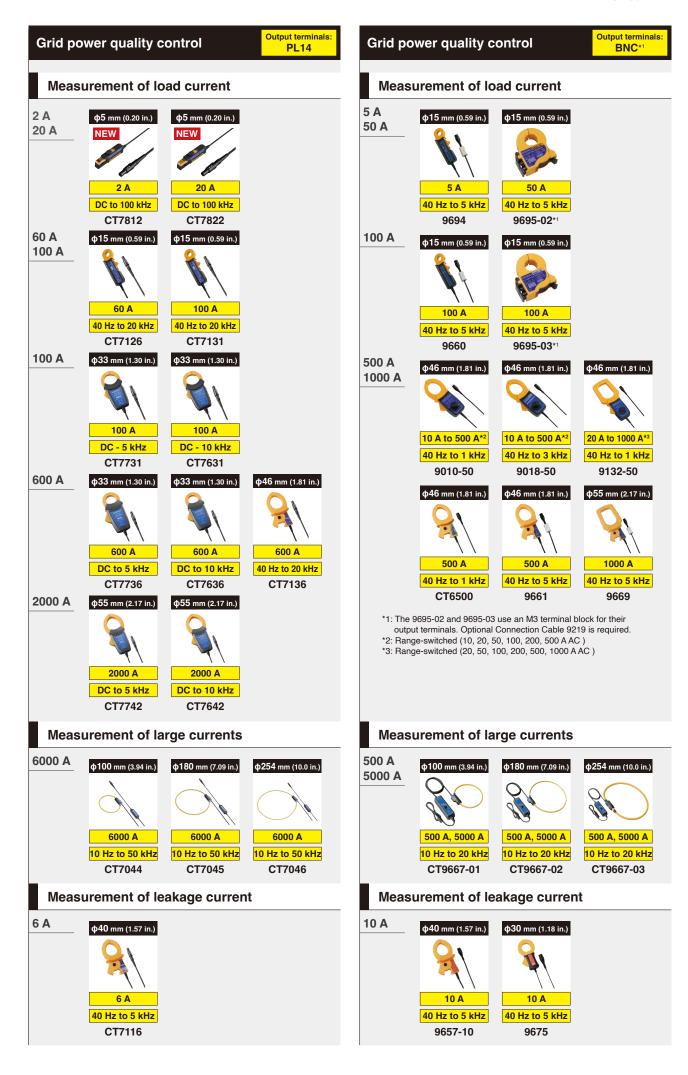
500 A

DC to 2 MHz

3275

Output terminals:

9



High-ad	ccuracy m	neasure	ement					Output 1	terminals: ME15W	
Pass-throu	ugh types									
Model	Appearance	Rated primary current	Maximum peak current	Withstand voltage* ²	Output voltage	Frequency range	Linearity error	Offset error	Amplitude errors	
CT6862-05		50 Arms	±141 A peak	AC 7.4 kV	40 mV/A	DC to 1 MHz	-	-	-	
CT6872 CT6872-01		50 Arms	±200 A peak	AC 7.4 kV	40 mV/A	DC to 10 MHz	±2 ppm	±5 ppm	DC: 7 ppm 10 Hz to 100 Hz: 0.005% 100 Hz to 1 kHz: 0.01% 1 kHz to 50 kHz: 0.1% 50 kHz to 100 kHz: 0.3% 100 kHz to 300 kHz: 1% 300 kHz to 1 MHz: 3%	
CT6863-05		200 Arms	±565 A peak	AC 7.4 kV	10 mV/A	DC to 500 kHz	-	-	-	
CT6873 CT6873-01		200 Arms	±350 A peak ^{:1}	AC 7.4 kV	10 mV/A	DC to 10 MHz	±2 ppm	±5 ppm	DC: ±7 ppm 10 Hz to 500 Hz: ±0.005% 500 Hz to 3 kHz: ±0.1% 3 kHz to 30 kHz: ±0.1% 30 kHz to 100 kHz: ±0.4% 100 kHz to 400 kHz: ±1% 400 kHz to 1 MHz: ±3%	
CT6875A CT6875A-1		500 Arms	±1500 A peak' ¹	AC 7.4 kV	4 mV/A	DC to 2 MHz DC to 1.5 MHz	±5 ppm	±5 ppm	DC: ±10 ppm 10 Hz to 100 Hz: ±0.005% 100 Hz to 1 kHz: ±0.02% 1 kHz to 20 kHz: ±0.08% 20 kHz to 100 kHz: ±0.5% 100 kHz to 300 kHz: ±1% 300 kHz to 1 MHz: ±5%	
CT6904A CT6904A-1		500 Arms	±1000 A peak ^{∙1}	AC 7.4 kV	4 mV/A	DC to 4 MHz DC to 2 MHz	±5 ppm	±10 ppm	-	
CT6904A-2 CT6904A-3		800 Arms	±1200 A peak ^{∹1}	AC 7.4 kV	2 mV/A	DC to 4 MHz DC to 2 MHz	±12.5 ppm	±10 ppm	-	
CT6876A CT6876A-1		1000 Arms	±1800 A peak ^{:1}	AC 7.4 kV	2 mV/A	DC to 1.5 MHz DC to 1.2 MHz	±5 ppm	±5 ppm	DC: ±10 ppm 10 to 100 Hz: ±0.005% 100 to 1 kHz: ±0.03% 1 k to 10 kHz: ±0.2% 10 k to 100 kHz: ±1% 100 k to 300 kHz: ±3% 300 k to 1 MHz: ±15%	
CT6877A CT6877A-1	Q	2000 Arms	±3200 A peak ^{:1}	AC 7.4 kV	1 mV/A	DC to 1 MHz	±10 ppm	±5 ppm	DC: ±15 ppm 10 Hz to 100 Hz: ±0.01% 100 Hz to 1 kHz: ±0.04% 1 kHz to 100 kHz: ±0.25% 10 kHz to 100 kHz: ±1% 100 kHz to 300 kHz: ±2% 300 kHz to 700 kHz: ±10%	
Clamp type	es									
9272-05		20 Arms, 200 Arms	±71 Apeak, ±430 Apeak	AC 5.4 kV	100 mV/A, 10 mV/A	1 Hz to 100 kHz	-	-	-	
CT6830		2 Arms	±4.3 A peak	-	1 V/A	DC to 100 kHz	-	-	-	
CT6831		20 Arms	±43 A peak	-	0.1 V/A	DC to 100 kHz	-	-	-	
CT6841A		20 Arms	±60 A peak¹¹	AC 4.26 kV	100 mV/A	DC to 2 MHz	±20 ppm	-	-	
CT6843A		200 Arms	±600 A peak ^{∙1}	AC 4.26 kV	10 mV/A	DC to 700 kHz	±20 ppm	-	-	
CT6844A		500 Arms	±800 A peak⁺¹	AC 4.26 kV	4 mV/A	DC to 500 kHz	±20 ppm	-	-	
CT6845A		500 Arms	±1500 A peak⁺¹	AC 4.26 kV	4 mV/A	DC to 200 kHz	±20 ppm	-	-	
CT6846A		1000 Arms	±1900 A peak⁺¹	AC 4.26 kV	2 mV/A	DC to 100 kHz	±20 ppm	-	-	
Direct-wire	ed types									
PW9100A-3		50 Arms	±200 A peak ⁻¹	AC 5.4 kV	40 mV/A	DC to 3.5 MHz	-	-	-	
PW9100A-4	aton aton aton aton	50 Arms	±200 A peak ⁻¹	AC 5.4 kV	40 mV/A	DC to 3.5 MHz	-	- '	-	
					*1.11/04/00 -	ma and 1000 (1010E	() or looo *0. C	'anaad aurrant	of 1 mA EO/CO LIT 1 min	

*1: Within 20 ms and 40°C (104°F) or less *2: Sensed current of 1 mA, 50/60 Hz, 1 min

Output terminals: ME15W

High-accuracy measurement

pass-throu	igh types										
Model	Amplitude DC	accuracy 50/60 Hz	Phase Shift Values	Delay times	Diameter of measurable conductors	Cable length	Operating temperature	Maximum rated voltage to earth	Automatic phase correction* ³		
 CT6862-05	±0.05 % rdg ±0.01 % f.s.	±0.05 % rdg ±0.01 % f.s.	300 kHz, -10.96 °	101 ns	φ24 mm (0.94 in.)	3 m (9.84 ft.)	-30°C to 85°C -22°F to 185°F	1000 V CAT III	-		
CT6872 CT6872-01	±0.03 % rdg ±0.002 % f.s.	±0.03 % rdg ±0.007 % f.s.	100 kHz, -1.28° 100 kHz, -2.63°	46 ns 82 ns	φ24 mm (0.94 in.)	3 m (9.84 ft.) 10 m (32.81 ft.)	-40°C to 85°C -40°F to 185°F	1000 V CAT III	Yes		
CT6863-05	±0.05 % rdg ±0.01 % f.s.	±0.05 % rdg ±0.01 % f.s.	100 kHz, -4.60 °	128 ns	φ24 mm (0.94 in.)	3 m (9.84 ft.)	-30°C to 85°C -22°F to 185°F	1000 V CAT III	-		
CT6873 CT6873-01	±0.03 % rdg ±0.002 % f.s.	±0.03 % rdg ±0.007 % f.s.	100 kHz, -0.75° 100 kHz,-2.10°	36 ns 69 ns	φ24 mm (0.94 in.)	3 m (9.84 ft.) 10 m (32.81 ft.)	-40°C to 85°C -40°F to 185°F	1000 V CAT III	Yes		
CT6875A CT6875A-1	0.04 % rdg ±0.008 % f.s.	0.04 % rdg ±0.008 % f.s.	200 kHz,-10.45 ° 200 kHz, 12.87 °	145 ns 179 ns	ф36 mm (1.42 in.)	3 m (9.84 ft.) 10 m (32.81 ft.)	-40°C to 85°C -40°F to 185°F	1000 V CAT III	Yes		
CT6904A CT6904A-1	±0.025 % rdg ±0.007 % f.s.	±0.02 % rdg ±0.007 % f.s.	300 kHz, -9.82 °	91 ns	ф32 mm (1.26 in.)	3 m (9.84 ft.) 10 m (32.81 ft.)	-10°C to 50°C 14°F to 122°F	1000 V CAT III	Yes		
 CT6904A-2 CT6904A-3	±0.030 % rdg. ±0.009 % f.s.	±0.025 % rdg ±0.009 % f.s.	300 kHz, -9.82 °	91 ns	ф32 mm (1.26 in.)	3 m (9.84 ft.) 10 m (32.81 ft.)	-10°C to 50°C 14°F to 122°F	1000 V CAT III	Yes		
CT6876A CT6876A-1	0.04 % rdg ±0.008 % f.s.	0.04 % rdg ±0.008 % f.s.	200 kHz,-12.96 ° 200 kHz,-14.34 °	180 ns 199 ns	ф36 mm (1.42 in.)	3 m (9.84 ft.) 10 m (32.81 ft.)	-40°C to 85°C -40°F to 185°F	1000 V CAT III	Yes		
CT6877A CT6877A-1	0.04 % rdg ±0.008 % f.s.	0.04 % rdg ±0.008 % f.s.	100 kHz,-2.63 ° 100 kHz,-3.34 °	73 ns 93 ns	ф80 mm (3.15 in.)	3 m (9.84 ft.) 10 m (32.81 ft.)	-40°C to 85°C -40°F to 185°F	1000 V CAT III	Yes		
 clamp type	es										
9272-05	-	±0.3 % rdg ±0.01 % f.s.	50 kHz, -3.34 ° 50 kHz, -4.18 °	186 ns/ 232 ns	φ46 mm (1.81 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	600 V CAT III	-		
 CT6830	±0.3% rdg ±0.1% f.s.	±0.3 % rdg ±0.05 % f.s.	10 kHz, -6.9 °	-	φ5 mm (0.20 in.)	4 m, 0.2 m ^{·₄} (13.12 ft., 0.66 ft.)	-40°C to 85°C -40°F to 185°F	-	Yes		
 CT6831	±0.3% rdg ±0.1% f.s.	±0.3 % rdg ±0.01 % f.s.	10 kHz, -4.4 °	-	φ5 mm (0.20 in.)	4 m, 0.2 m ^{·₄} (13.12 ft., 0.66 ft.)	-40°C to 85°C -40°F to 185°F	-	Yes		
 CT6841A	±0.2 % rdg ±0.05 % f.s.	±0.2 % rdg ±0.01 % f.s.	100 kHz, -3.59 °	100 ns	φ20 mm (0.79 in.)	3 m (9.84 ft.)	-40°C to 85°C -40°F to 185°F	-	Yes		
 CT6843A	±0.2 % rdg ±0.02 % f.s.	±0.2 % rdg ±0.01 % f.s.	100 kHz, -3.96 °	110 ns	φ20 mm (0.79 in.)	3 m (9.84 ft.)	-40°C to 85°C -40°F to 185°F	-	Yes		
 CT6844A	±0.2 % rdg ±0.02 % f.s.	±0.2 % rdg ±0.01 % f.s.	100 kHz, -3.92 °	109 ns	φ20 mm (0.79 in.)	3 m (9.84 ft.)	-40°C to 85°C -40°F to 185°F	-	Yes		
 CT6845A	±0.2 % rdg ±0.02 % f.s.	±0.2 % rdg ±0.01 % f.s.	10 kHz, -0.94 °	261 ns	φ50 mm (1.97 in.)	3 m (9.84 ft.)	-40°C to 85°C -40°F to 185°F	-	Yes		
 CT6846A	±0.2 % rdg ±0.02 % f.s.	±0.2 % rdg ±0.01 % f.s.	10 kHz, -1.05 °	292 ns	φ50 mm (1.97 in.)	3 m (9.84 ft.)	-40°C to 85°C -40°F to 185°F	-	Yes		
 direct-wire	d types										
 PW9100A-3	±0.02 % rdg ±0.007 % f.s.	±0.02 % rdg ±0.005 % f.s.	300 kHz, -2.80 °	26 ns	M6 screw terminals	3 ch	0°C to 40°C 32°F to 104°F	1000 V CAT II 600V CAT III	Yes		
PW9100A-4	±0.02 % rdg ±0.007 % f.s.	±0.02 % rdg ±0.005 % f.s.	300 kHz, -2.80 °	26 ns	M6 screw terminals	4 ch	0°C to 40°C 32°F to 104°F	1000 V CAT II 600V CAT III	Yes		

*3: When using PW8001 *4: Between sensor to multiplexer, between multiplexer to output connector

Wavef	orm obse	ervation						Output termi	nals: BNC
Model	Appearance	Rated current: output rate	Frequency range	Rise time (10% to 90%)	Delay time	Amplitude accuracy	Diameter of measurable conductors	Cable length*1	Operating temperature
High-sens	sitivity observ	ation of currents	ranging in m	agnitude from	minuscul	e to large			
CT6710 CT6711	-	0.5 Arms: 10 V/A 5 Arms: 1 V/A 30 Arms: 0.1 V/A	DC to 50 MHz DC to 120 MHz	7.0 ns or less 2.9 ns or less	12 ns [.] 2	±3.0% rdg ±1mV	φ5 mm (0.20 in.)	1.5 m, 1 m (4.92 ft., 3.28 ft.)	0°C to 40°C 32°F to 104°F
Observati	on of minusc	ule currents							
CT6700 CT6701	00	5 Arms: 1 V/A	DC to 50 MHz DC to 120 MHz	7.0 ns or less 2.9 ns or less	13 ns 12 ns	±3.0% rdg ±1mV	φ5 mm (0.20 in.)	1.5 m, 1 m (4.92 ft., 3.28 ft.)	0°C to 40°C 32°F to 104°F
Observati	on of large cu	irrents							
3273-50 3276	00	30 Arms: 0.1 V/A	DC to 50 MHz DC to 100 MHz	7.0 ns or less 3.5 ns or less	16 ns 14 ns	±1.0 % rdg ±1 mV	φ5 mm (0.20 in.)	1.5 m, 1 m (4.92 ft., 3.28 ft.)	0°C to 40°C 32°F to 104°F
3274 3275		150 Arms: 0.01 V/A 500 Arms: 0.01 V/A	DC to 10 MHz DC to 2 MHz	35 ns or less 175 ns or less	40 ns 66 ns	±1.0 % rdg,±1 mV ±1.0 % rdg,±5 mV	φ20 mm (0.79 in.)	2.0 m, 1 m (6.56 ft., 3.28 ft.)	0°C to 40°C 32°F to 104°F

*1: Sensor cable: cable between relay box and sensor for models with relay boxes (i.e. CT6710, CT6711), power supply cable for other models *2: When using 0.5 A range: 13 ns

Grid p	ower qua	lity contro	bl				Output term	inals: PL14
Model	Appearance	Rated current	Frequency range	Amplitude accuracy	Diameter of measurable conductors	Cable length	Operating temperature	САТ
Measuren	nent of load c	urrent						
CT7126 CT7131		60 A AC 100 A AC	40 Hz to 20 kHz	±0.3% rdg ±0.01% f.s. ±0.3% rdg ±0.02% f.s.	φ15 mm (0.59 in.)	2.5 m (8.20 ft.)	-10°C to 50°C 14°F to 122°F	CAT III 300 V
CT7731 CT7631	N	100 A AC/DC	DC to 5 kHz DC to 10 kHz	±1.0% rdg ±0.5% f.s.	ф33 mm (1.30 in.)	2.5 m (8.20 ft.)	-25°C to 65°C -13°F to 149°F	CAT IV 600 V
CT7736 CT7636		600 A AC/DC	DC to 5 kHz DC to 10 kHz	±2.0% rdg ±0.5% f.s.	ф33 mm (1.30 in.)	2.5 m (8.20 ft.)	-25°C to 65°C -13°F to 149°F	CAT IV 600 V CAT III 1000 V
CT7136		600 A AC/DC	40 Hz to 20 kHz	±0.3 % rdg ±0.01 % f.s.	φ46 mm (1.81 in.)	2.5 m (8.20 ft.)	-10°C to 50°C 14°F to 122°F	CAT IV 600 V CAT III 1000 V
CT7742 CT7642		2000 A AC/DC	DC to 5 kHz DC to 10 kHz	±1.5% rdg ±0.5% f.s.	φ55 mm (2.17 in.)	2.5 m (8.20 ft.)	-25°C to 65°C -13°F to 149°F	CAT IV 600 V CAT III 1000 V
CT7812	Ser of	2 Arms	DC to 100 kHz	±0.3% rdg ±0.1% f.s.	φ5 mm (0.20 in.)	4 m, 0.2 m ^{·3} (13.12 ft., 0.66 ft.)	-40°C to 85°C -40°F to 185°F	-
CT7822	and the second s	20 Arms	DC to 100 kHz	±0.3% rdg ±0.1% f.s.	φ5 mm (0.20 in.)	4 m, 0.2 m ^{·3} (13.12 ft., 0.66 ft.)	-40°C to 85°C -40°F to 185°F	-
Measuren	nent of large o	urrents						
CT7044		6000 A AC	10 Hz to 50 kHz	±1.5 % rdg ±0.25% f.s.	φ100 mm (3.94 in.)	2.3 m, 0.2 m ^{·4} (7.55 ft., 0.66 ft.)	-25°C to 65°C -13°F to 149°F	CAT IV 600 V CAT III 1000 V
CT7045		6000 A AC	10 Hz to 50 kHz	±1.5 % rdg ±0.25% f.s.	φ180 mm (7.09 in.)	2.3 m, 0.2 m* (7.55 ft., 0.66 ft.)	-25°C to 65°C -13°F to 149°F	CAT IV 600 V CAT III 1000 V
CT7046		6000 A AC	10 Hz to 50 kHz	±1.5 % rdg ±0.25% f.s.	φ254 mm (10.00 in.)	2.3 m, 0.2 m* (7.55 ft., 0.66 ft.)	-25°C to 65°C -13°F to 149°F	CAT IV 600 V CAT III 1000 V
Measuren	nent of leakag	e current						
CT7116		6 A AC	40 Hz to 5 kHz	±1.0% rdg ±0.05% f.s.	φ40 mm (1.57 in.)	2.5 m (8.20 ft.)	-25°C to 65°C -13°F to 149°F	-

*3: Sensor to multiplexer, multiplexer to output connector *4: Between sensor to multiplexer, between multiplexer to output connector

Grid p	ower qua	lity contro	bl				Output term	inals: BNC
Model	Appearance	Rated current	Frequency range	Amplitude accuracy	Diameter of measurable conductors	Cable length	Operating temperature	САТ
Measuren	nent of load c	urrent						
9694		5 A AC	40 Hz to 5 kHz	±0.3% rdg ±0.02% f.s.	φ15 mm (0.59 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	300 V CAT II
9695-02 ^{*1}		50 A AC	40 Hz to 5 kHz	±0.3% rdg ±0.02% f.s.	φ15 mm (0.59 in.)	-	0°C to 50°C 32°F to 122°F	300 V CAT II
9660		100 A AC	40 Hz to 5 kHz	±0.3% rdg ±0.02% f.s.	φ15 mm (0.59 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	300 V CAT II
9695-03 ^{•1}		100 A AC	40 Hz to 5 kHz	±0.3% rdg ±0.02% f.s.	φ15 mm (0.59 in.)	-	0°C to 50°C 32°F to 122°F	300 V CAT II
9010-50		10 A to 500 A AC	40 Hz to 1 kHz	±2% rdg ±1% f.s.	φ46 mm (1.81 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	600 V CAT II
9018-50		10 A to 500 A AC	40 Hz to 3 kHz	±1.5% rdg ±0.1% f.s.	φ46 mm (1.81 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	600 V CAT II
9132-50		20 A to 1000 A AC	40 Hz to 1 kHz	±3 % rdg ±0.2 % f.s.	φ55 mm (2.17 in.)	3 m (9.84 ft.)	-10°C to 50°C 14°F to 122°F	600 V CAT II
CT6500		500 A AC	40 Hz to 1 kHz	±1.5 % rdg ±0.03 % f.s.	φ46 mm (1.81 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	600 V CAT II
9661		500 A AC	40 Hz to 5 kHz	±0.3% rdg ±0.01% f.s.	φ46 mm (1.81 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	600 V CAT II
9669		1000 A AC	40 Hz to 5 kHz	±1.0% rdg ±0.01% f.s.	φ55 mm (2.17 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	600 V CAT II
Measuren	nent of large o	currents						
CT9667-01		500 A, 5000 A AC	10 Hz to 20 kHz	±2 % rdg ±0.3 % f.s.	φ100 mm (3.94 in.)	2 m, 1 m* ² (6.56 ft., 3.28 ft.)	-25°C to 65°C -13°F to 149°F	600 V CAT IV 1000 V CAT I
CT9667-02		500 A, 5000 A AC	10 Hz to 20 kHz	±2 % rdg ±0.3 % f.s.	φ180 mm (7.09 in.)	2 m, 1 m* ² (6.56 ft., 3.28 ft.)	-25°C to 65°C -13°F to 149°F	600 V CAT IV 1000 V CAT I
CT9667-03		500 A, 5000 A AC	10 Hz to 20 kHz	±2 % rdg ±0.3 % f.s.	φ254 mm (10.00 in.)	2 m, 1 m* ² (6.56 ft., 3.28 ft.)	-10°C to 50°C 14°F to 122°F	600 V CAT IV 1000 V CAT I
Measurement of leakage current								
9657-10		10 A AC	40 Hz to 5 kHz	±.1.0 % rdg ±0.05 % f.s.	φ40 mm (1.57 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	-
9675	R	10 A AC	40 Hz to 5 kHz	±.1.0 % rdg ±0.005 % f.s.	ф30 mm (1.18 in.)	3 m (9.84 ft.)	0°C to 50°C 32°F to 122°F	-

*1: The 9695-02 and 9695-03 use an M3 terminal block for their output terminals. The extra purchase of the connection cable 9219 is required. *2: Sensor cable: between flexible loop and circuit box for flexible sensors (e.g. CT9667-01), output cable for others.

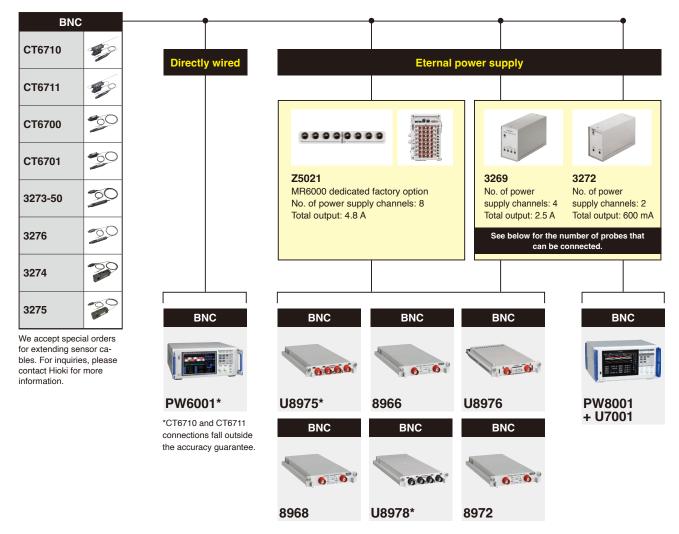
High-accuracy measurement

* Depending on the connected instruments, it may not be possible to measure up to the rated current of the current sensors. For details, refer to the instruction manual of the connected instruments.

ME15	w	•		•		•
CT6862-05		Directly wired	External p	ower supply + con	nection cord	Conversion cable
CT6872 CT6872-01					1.	
CT6863-05			CT9555, CT95	56 L9217	9165	010004
CT6873 CT6873-01			Connects one se CT9557* Connects four se	nsor Isolated Connec		CT9901 Converts ME15W terminal to PL23 terminal
CT6875A CT6875A-1						
CT6904A CT6904A-1 CT6904A-2 CT6904A-3		ME15W	BNC	BNC	BNC	PL23
CT6876A CT6876A-1	<u>S</u>	PW8001	PW3335-03	U8975	MR8870	8971+9318 The 9318
CT6877A CT6877A-1		ME15W	BNC	BNC	BNC	comes with the 8971
9272-05		PW6001	PW3335-04	U8976	MR8880	
CT6830		ME15W	BNC	BNC	BNC	
CT6831	and and a second			.0000		
CT6841A CT6843A CT6844A		PW3390 ME15W	PW3336 BNC	U8978 BNC	MR8875	
CT6845A CT6846A		10.0.0°			+ MR8901	
PW9100A-3		U8977	PW3337	8966 BNC		
PW9100A-4	an in in in				*The CT9557 can input as an addec CT9557 Front	output four channels of waveform. Rear
We accept specia extending sensor nquiries, please or more informat	cables. For contact Hioki			8968 BNC	Sensor input	
		CT9902 (ME15W-ME1 The CT9902 can be us			Total RMS 1 output (BNC) Total wavefor	CONNECTION CABLE L9217, 9165 BNC-BNC m CONNECTION CABLE
		a current sensor's cabl two of these cables car a maximum extension "When using the CT9902,	e by 5 m. Up n be used for	8972	2 output (BNC)	L9217, 9165 BNC-BNC m CONNECTION CABLE

Waveform observation

* Depending on the connected instruments, it may not be possible to measure up to the rated current of the current sensors. For details, refer to the instruction manual of the connected instruments.



*Special-order cables are required when using three or more probes simultaneously. Please contact Hioki for details.

The following products can be used with the U8975, U8976, U8978, 8966, 8968, and 8972



Current consumption per probe and number of probes per power supply

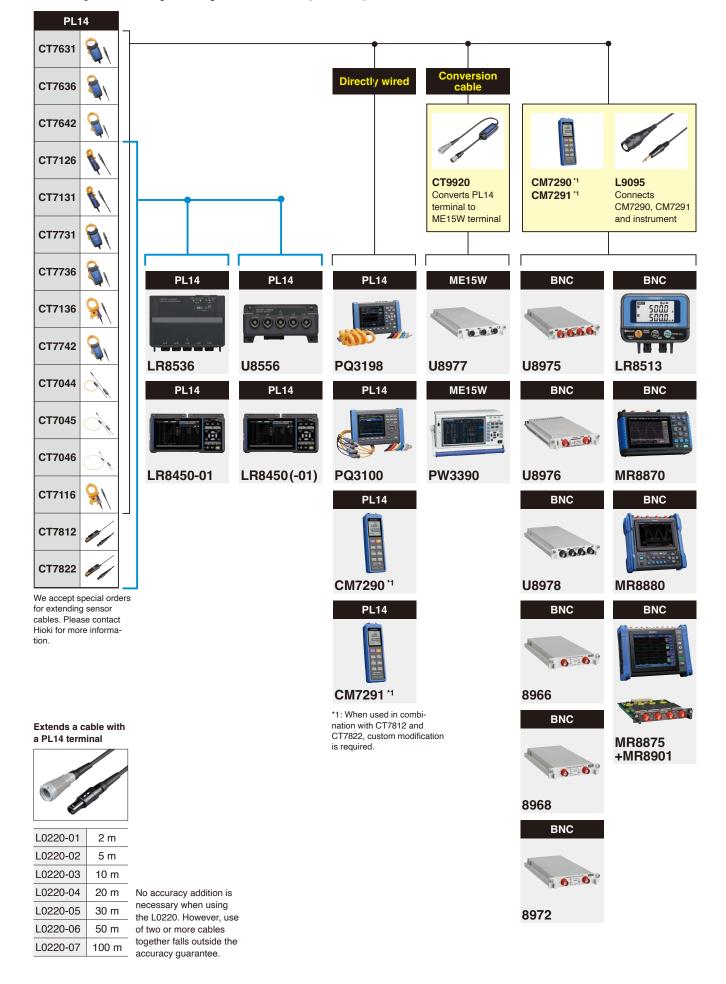
Current consumption varies by probe. The following table indicates how many probes can be utilized when using one type of probe per power supply.

Sensor	Consumption current*	Z5021	3269	3272
CT6710	approx. 650 mA	4	2	-
CT6711	approx. 650 mA	4	2	-
CT6700	approx. 250 mA	8	4	2
CT6701	approx. 250 mA	8	4	2
3273-50	approx. 450 mA	8	4	1
3274	approx. 450 mA	8	4	1
3275	approx. 600 mA	8	4	1
3276	approx. 450 mA	8	4	1

*When measuring the rated current.

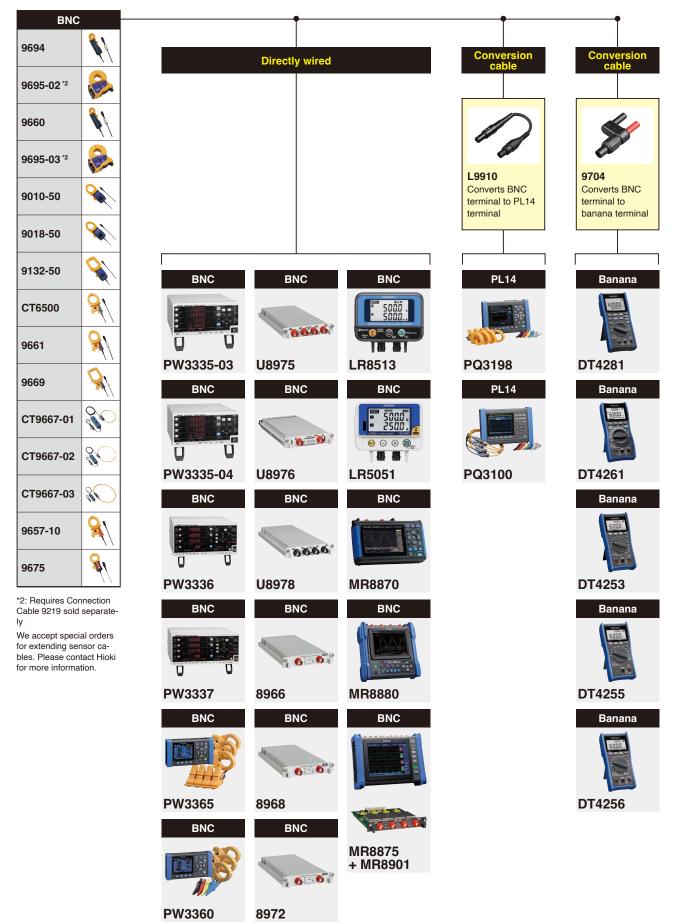
Grid power quality control (PL14)

* Depending on the connected instruments, it may not be possible to measure up to the rated current of the current sensors. For details, refer to the instruction manual of the connected instruments.



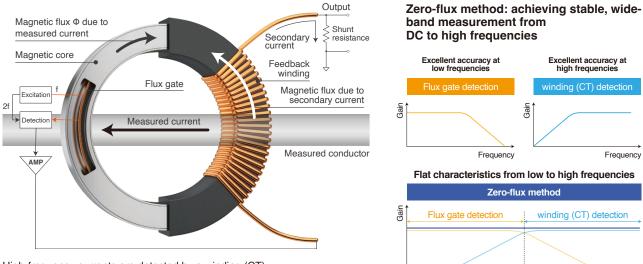
Grid power quality control (BNC)

* Depending on the connected instruments, it may not be possible to measure up to the rated current of the current sensors. For details, refer to the instruction manual of the connected instruments.



Accurately evaluating power conversion efficiency

Improving power conversion efficiency is a key part of the effort to facilitate the effective use of energy. Devices that operate at high frequencies are increasingly being used to improve efficiency, and evaluation processes undertaken during the development of such devices requires accurate measurement of power at the low frequencies used by in previous devices as well as at high frequencies. Additionally, sensors that can resist noise are necessary since noise becomes stronger as the frequency increases. Hioki offers current sensors that can measure power accurately while providing robust noise resistance over a broad band of frequencies.



High-frequency currents are detected by a winding (CT), while DC to low-frequency currents are detected by a flux gate.

Zero-flux method (flux gate) current sensors







CT6862-05, CT6863-05 CT6872,CT6873

CT6875A CT6876A





CT6904A

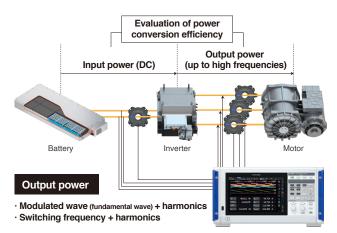
Frequency

Application

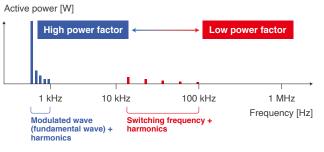
CT7812, CT7822

Evaluating the power conversion efficiency of an inverter

When evaluating the power conversion efficiency of an inverter, the inverter's input and output power are measured and its efficiency is checked. PWM (pulse width modulated) inverter output, which has been widely used in recently years, contains a modulated wave (fundamental wave) and a switching frequency along with their respective harmonic components. Since switching frequencies tend to be high, the process requires wide frequency band current sensors.



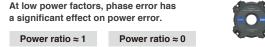
Inverter output: principal active power components

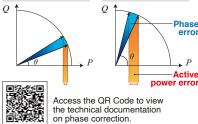


Since the power factor decreases with harmonics, current sensors' phase measurement accuracy becomes key (see right).

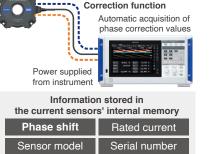
Phase measurement accuracy and correction: accurately measuring power at low power factors

For typical current sensors, phase measurement accuracy is not defined. However, phase measurement precision is important in applications where power must be measured with a high degree of accuracy. Power can be measured more accurately by selecting a current sensor for which phase measurement accuracy is defined in the measurement band.

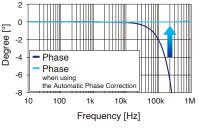




The power factor decreases in the high-frequency range of the switching frequencies and other frequency components. At low power factors, phase error has a significant effect on power measured values.



PW8001: Automatic Phase

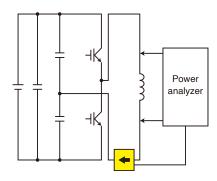


Example of the Automatic Phase Correction for the CT6904A AC/DC current sensor

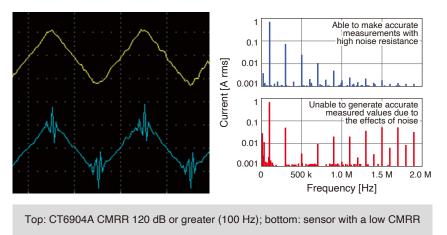
For typical sensors, phase error increases with frequency. Since Hioki has developed both current sensors and the measuring instruments, current sensors' phase characteristics can be corrected by the instruments, allowing accurate power values to be calculated.

Common-mode voltage rejection ratio: measuring current values accurately in noisy environments

In high-frequency measurement, sensors' resistance to noise is critical. A sensor's ability to remove noise is expressed by its common-mode rejection ratio (CMRR). Sensors with a high CMRR reject more noise and therefore can make more accurate measurements.

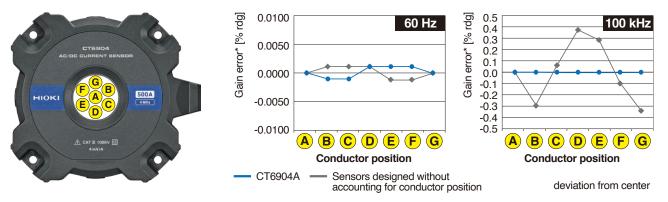


For reactors, higher frequencies mean lower current values. The image to the right shows a waveform obtained by measuring reactor current at high frequency along with variations in current values that accompany variations in the frequency.



Effects of conductor position: stable, highly reproducible sensing

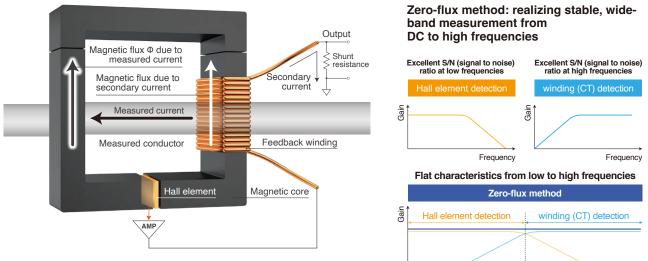
In general, speaking, the effects of conductor position increase with frequency. Since the position of the conductor inside the clamp core affects the measurement accuracy, resulting the reproducibility of measurement reduces. Sensors are designed the effects of conductor position, highly reproducible measurements are possible since conductor position does not affect measured values.



When using sensors designed to take into account the effects of conductor position, changes in conductor position have only a small effect on the measured value.

Clearly observing current waveforms

The magnitude of the currents that flow in power-saving devices during operation and control currents that flow in automotive accessory components have reduced to 1 mA or less. At the same time, reliance on high-speed switching operation for device control is resulting in increased noise. Wideband current probes that are highly resistant to noise are essential in order to clearly observe low-current waveforms without losing them in noise. Hioki offers current probes that enable clear waveform observation while providing robust noise resistance over a broad band of frequencies.



High-frequency currents are detected by the winding (CT), while DC to low-frequency currents are detected by the Hall element.

Zero-flux method (hall element) current probes









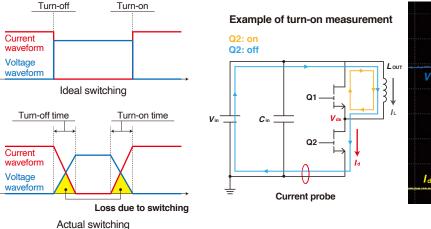
3274, 3275

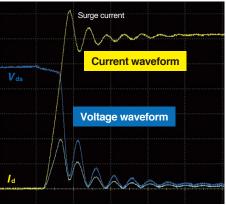
Application

CT6710, CT6711

Evaluating the response performance of switching devices

Switching devices control equipment by turning the power on and off. The response performance of switching devices is evaluated by observing fluctuations of current and voltage when the device cycles the power on and off. Capturing current fluctuations caused by high-speed switching operation requires current probes with a broad frequency band. Additionally, noise resistance is important since switching operation generates noise.





Frequency

Observing waveforms from minuscule currents to large currents: evaluating the control design of ECUs and accessory components

The control systems used in ECUs and accessory components carry currents of a variety of magnitudes according to the vehicle's operation, from control currents to inrush currents. Using a current probe that can switch current ranges makes it possible to observe current waveforms associated with an array of operating conditions with a single probe.

. 250 µs

30 A range

waveform

(inrush current)



CT6710/CT6711 0.5 A, 5 A, 30 A range switching



Observing a minuscule current waveform (current consumption of a power-saving device)

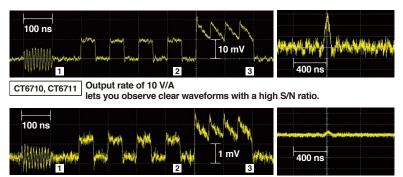
Observing currents of a variety of magnitudes. from minuscule currents to large currents, with a single probe

Model	Freq. band	mesurement range	output rate
		0.5 A	10 V/A
CT6710	DC to 50 MHz	5 A	1 V/A
		30 A	0.1 V/A
		0.5 A	10 V/A
CT6711	DC to 120 MHz	5 A	1 V/A
		30 A	0.1 V/A
CT6700	DC to 50 MHz	5 A	1 V/A
CT6701	DC to 120 MHz	5 A	1 V/A
3273-50	DC to 50 MHz	30 A	0.1 V/A
3276	DC to 100 MHz	30 A	0.1 V/A
3274	DC to 10 MHz	150 A	0.01 V/A
3275	DC to 2 MHz	500 A	0.01 V/A

Clearly observing minuscule currents: operating currents of power-saving devices and control currents flowing to accessory components

Observing a large current

The magnitude of the currents that flow during operation of power-saving devices like wearables and control currents that flow in automotive accessory components tend to decrease in to 1 mA or less. Using a current probe with a high output rate make you possible for clearly observing minuscule current waveforms.



precludes observation of accurate waveforms as they are obscured by noise.

1 Sine wave: f = 100 MHz, 1 mA peak-peak

Earlier model

[2] Square wave: f = 10 MHz, 1 mA peak-peak
 [3] Sawtooth wave: f = 20 MHz, 1 mA peak-peak (offset +1 mA)

Output rate of 1 V/A

Noise resistance design: key to increasing output rate



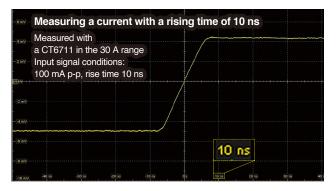
ed inside the probe.



Hioki uses a proprietary thin- Electromagnetic shielding film Hall element to reduce in the sensor improves rethe amount of noise generat-sistance to environmental noise

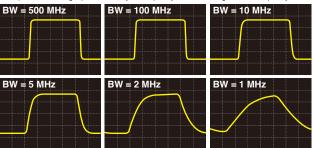
Observing waveforms across a broad band of frequencies: capturing waveforms and pulse waveforms that fluctuate at high speeds

Currents from switching operation of devices such as SiC and GaN inverters and currents that flow momentarily when a power supply is activated fluctuate at high speeds. Using a current probe with a wide frequency band allows you observe current waveforms that fluctuate at high speed. Additionally, such devices allow you observe current waveforms such as pulse waveforms that contain a variety of frequency components.



Current probes with a wide frequency band can capture high-speed current fluctuations with a rising time of 10 ns.

Failure to capture accurate waveforms due to insufficient frequency band Example of measuring a pulse with a cyclic frequency of 1 MHz using different frequency bands



Current probes with a wide frequency band can accurately capture pulse waveforms.

CT6862-05



Product warranty period: 3 years Guaranteed accuracy period: 1 year

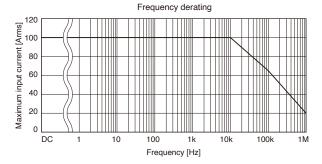
Rated current	50 A AC/DC
Frequency band	DC to 1 MHz (-3 dB)
Diameter of measurable conductors	Max. φ 24 mm (0.94 in.)

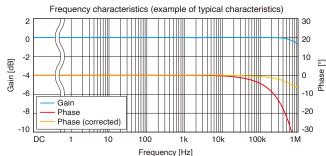
Accuracy

Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.05% ±0.01%	-
$DC < f \le 16 Hz$	±0.10% ±0.02%	±0.3°
16 Hz < f ≤ 400 Hz	±0.05% ±0.01%	±0.2°
400 Hz < f ≤ 1 kHz	±0.2% ±0.02%	±0.5°
1 kHz < f ≤ 5 kHz	±0.7% ±0.02%	±1.0°
5 kHz < f ≤ 10 kHz	±1% ±0.02%	±1.0°
10 kHz < f ≤ 50 kHz	±1% ±0.02%	± (0.5 + 0.1× f kHz)°
50 kHz < f ≤ 100 kHz	±2% ±0.05%	± (0.5 + 0.1× f kHz)°
100 kHz < f ≤ 300 kHz	±5% ±0.05%	± (0.5 + 0.1× f kHz)°
300 k Hz < f ≤ 700 kHz	±10% ±0.05%	-
700 kHz < f < 1 MHz	±30% ±0.05%	-

The values above are when the input is a sine wave, the conductor is in the center of the sensor opening, and the measurement instrument's input resistance is 1 MΩ or higher. Amplitude accuracy: defined at the rated value or less, or within the derating curve; DC < f < 5 Hz is the typical value by design. Phase accuracy: defined at the rated value or less, or within the derating curve; DC < f < 10 Hz is the typical value by design.

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less
Effect of temperature	In ranges from -30°C to 0°C (-22°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±0.005% of reading/°C or less Offset voltage: ±0.005% of full scale/°C or less
Effect of common mode voltage	0.05% of full scale or less (1000 Vrms, DC to 100 Hz)





quency	[Hz]

Output voltage	40 mV/A (= 2 V/50 A)
Operating temperature and humidity range	-30°C to 85°C (-22°F to 185°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-30°C to 85°C (-22°F to 185°F), 80% RH or less (no condensation)
Maximum rated voltage to ground	1000 V AC/DC (50/60 Hz), measurement category III, anticipated transient overvoltage: 8000 V
Standards	Safety: EN61010, EMC: EN61326
Cable length	3 m (9.84 ft.)
Dimensions	70 mm (2.76 in.) W \times 100 mm (3.94 in.) H \times 53 mm (2.09 in.) D (Excluding protruding parts and cables)
Weight	Approx. 340 g (12.0 oz.)

CT6872 CT6872-01



Product warranty period: 3 years Guaranteed accuracy period: 1 year

Rated current	50 A AC/DC
Frequency band	DC to 10 MHz (-3 dB)
Diameter of measurable conductors	Max

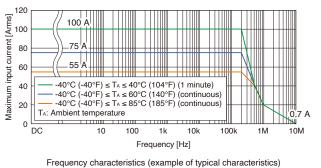
Accuracy

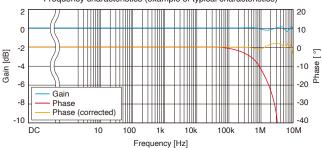
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.03% ±0.002%	-
DC < f ≤ 16 Hz	±0.1% ±0.01%	±0.1°
16 Hz < f ≤ 45 Hz	±0.05% ±0.01%	±0.08°
45 Hz < f ≤ 66 Hz	±0.03% ±0.007%	±0.05°
66 Hz < f ≤ 100 Hz	±0.04% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.06% ±0.01%	±0.15°
500 Hz < f ≤ 1 kHz	±0.1% ±0.01%	±0.4°
1 kHz < f ≤ 5 kHz	±0.15% ±0.02%	±0.4°
5 kHz < f ≤ 10 kHz	±0.15% ±0.02%	±0.5°
10 kHz < f ≤ 1 MHz	(0.012 × f kHz)% + 0.05%	±(0.04 × f kHz)° ±0.1°

Combined accuracy with HIOKI power analyzer PW8001, PW6001 and PW3390 is specified (DC, 45 Hz s1 s66 Hz). For details of combined accuracy, refer to the instruction manual. The values above are when the input is a sine wave, the measuring instrument has an input resistance of 1 MΩ ±10%, the voltage to ground is 0. Where is no external magnetic field, and the conductor is in the center of the sensor opening. Amplitude accuracy, idelined 110% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less, or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less or within the derating curve; DC <1 <10 Hz is the value by design. Add ±0.01% of full scale or less or within the derating curve; DC <1 <10 Hz is the value by design.

Temperature and humidity range for guaranteed accuracy	23°C ±5°C (73.4°F ±41°F), 80% RH or less	
Effect of temperature	In ranges from -40°C to 18°C (-40°F to 64.4°F) and 28°C to 85°C (82.4°F to 185°F) Amplitude sensitivity: ±20 ppm of of reading/°C Offset voltage: ±0.2 ppm of of full scale/°C	
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 150 dB or greater (DC to 1 kHz) 140 dB or greater (1 kHz to 10 kHz) 120 dB or greater (10 kHz to 100 kHz) 100 dB or greater (100 kHz to 1 MHz)	
Linearity error	±2 ppm	
Offset error	±5 ppm	
Amplitude errors	DC: 7 ppm 10 Hz to 100 Hz: 0.005% 100 Hz to 1 kHz: 0.01% 1 kHz to 50 kHz: 0.1%	50 kHz to 100 kHz: 0.3% 100 kHz to 300 kHz: 1% 300 kHz to 1 MHz: 3%







Output voltage	40 mV/A (= 2 V / 50 A)
Operating temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Maximum rated voltage to ground	1000 V CAT III Anticipated transient overvoltage: 8000 V
Standards	Safety: EN61010, EMC: EN61326
Cable length	CT6872: 3 m (9.84 ft.) CT6872-01: 10 m (32.81 ft.)
Dimensions	70 mm (2.76 in.) W \times 110 mm (4.33 in.) H \times 53 mm (2.09 in.) D (excluding protruding parts and cables)
Weight	CT6872: approx. 370 g (13.1 oz.) CT6872-01: approx. 690 g (24.3 oz.)

CT6863-05



Product warranty period: 3 years Guaranteed accuracy period: 1 year

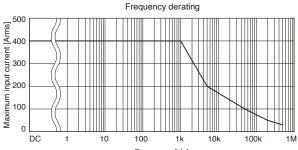
Rated current	200 A AC/DC
Frequency band	DC to 500 kHz (-3 dB)
Diameter of measurable conductors	Max. φ 24 mm (0.94 in.)

Accuracy

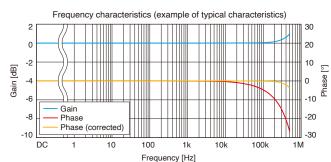
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.05% ±0.01%	-
$DC < f \le 16 Hz$	±0.10% ±0.02%	±0.3°
16 Hz < f ≤ 400 Hz	±0.05% ±0.01%	±0.2°
400 Hz < f ≤ 1 kHz	±0.2% ±0.02%	±0.5°
1 kHz < f ≤ 5 kHz	±0.7% ±0.02%	±1.0°
5 kHz < f ≤ 10 kHz	±1% ±0.02%	±1.0°
10 kHz < f ≤ 50 kHz	±2% ±0.02%	$\pm (0.5 + 0.1 \times f \text{ kHz})^{\circ}$
50 kHz < f ≤ 100 kHz	±5% ±0.05%	± (0.5 + 0.1 × f kHz)°
100 kHz < f ≤ 300 kHz	±10% ±0.05%	± (0.5 + 0.1 × f kHz)°
300 kHz < f \leq 500 kHz	±30% ±0.05%	-

The values above are when the input is a sine wave, the conductor is in the center of the sensor opening, and the measurement instrument's input resistance is 1 MQ or higher. Amplitude accuracy: defined at the rated value or less, or within the derating curve; DC <1 < 5 Hz is the typical value by design. Phase accuracy: defined at the rated value or less, or within the derating curve; DC <1 < 10 Hz is the typical value by design.

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less
Effect of temperature	In ranges from -30°C to 0°C (-22°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±0.005% of reading/°C or less Offset voltage: ±0.005% of full scale/°C or less
Effect of common mode voltage	0.05% of full scale or less (1000 Vrms, DC to 100 Hz)







Output voltage	10 mV/A (= 2 V / 200 A)
Operating temperature and humidity range	-30°C to 85°C (-22°F to 185°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-30°C to 85°C (-22°F to 185°F), 80% RH or less (no condensation)
Maximum rated voltage to ground	1000 V AC/DC (50/60 Hz), measurement category III, anticipated transient overvoltage: 8000 V
Standards	Safety: EN61010, EMC: EN61326
Cable length	3 m (9.84 ft.)
Dimensions	70 mm (2.76 in.) W \times 100 mm (3.94 in.) H \times 53 mm (2.09 in.) D (excluding protruding parts and cables)
Weight	Approx. 340 g (12.0 oz.)

CT6873 CT6873-01



Product warranty period: 3 years Guaranteed accuracy period: 1 year

Rated current	200 A AC/DC
Frequency band	DC to 10 MHz (-3 dB)
Diameter of measurable conductors	Max. φ 24 mm (0.94 in.)

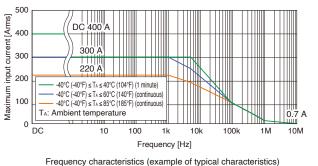
Accuracy

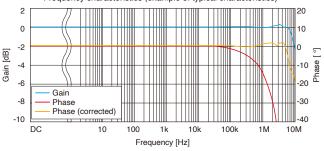
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.03% ±0.002%	-
DC < f ≤ 16 Hz	±0.1% ±0.01%	±0.1°
16 Hz < f ≤ 45 Hz	±0.05% ±0.01%	±0.08°
45 Hz < f ≤ 66 Hz	±0.03% ±0.007%	±0.05°
66 Hz < f ≤ 100 Hz	±0.04% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.05% ±0.01%	±0.15°
500 Hz < f ≤ 3 kHz	±0.1% ±0.01%	±0.4°
3 kHz < f ≤ 5 kHz	±0.2% ±0.02%	±0.4°
5 kHz < f ≤ 10 kHz	±0.2% ±0.02%	±0.5°
10 kHz < f ≤ 1 MHz	(0.018 × f kHz)% + 0.05%	±(0.04 × f kHz)° ±0.1°

To Kniz < i S F IM 12 Combined accuracy with HIOKI power analyzer PW8001 and PW3390 is specified (DC, 45 Hz s1 ≤ 66 Hz). For details of combined accuracy, refer to the instruction manual. The values above are when the input is a sine wave, the measuring instrument has an input resistance of 1 M0 ±10%, the voltage to ground is 0.4, there is no external magnetic field, and the conductor is in the center of the sensor opening. Amplitude accuracy, defined 110% of full scale or less, or within the derating curve; DC < 1 C1 Hz is the value by design. Phase accuracy: defined 110% of full scale or less, or within the derating curve; DC < 1 C1 Hz is the value by design. Add ±0.01% of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale The CT6873-01 adds a phase accuracy of ±(0.015 × 1)° at a frequency of 1 kHz < f ≤ 1 MHz.

Temperature and humidity range for guaranteed accuracy	23°C ±5°C (73.4°F ±41°F), 80% RH or less	
Effect of temperature	In ranges from -40°C to 18°C (-40°F to 64.4°F) and 28°C to 85°C (82.4°F to 185°F) Amplitude sensitivity: ±15 ppm of of reading/°C Offset voltage: ±0.1 ppm of of full scale/°C	
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 150 dB or greater (DC to 1 kHz) 140 dB or greater (1 kHz to 100 kHz) 120 dB or greater (10 kHz to 100 kHz) 100 dB or greater (100 kHz to 1 MHz)	
Linearity errors	±2 ppm	
Offset error	±5 ppm	
Amplitude error	DC: ±7 ppm 10 Hz to 500 Hz: ±0.005% 500 Hz to 3 kHz: ±0.01% 3 kHz to 30 kHz: ±0.1%	30 kHz to 100 kHz: ±0.4% 100 kHz to 400 kHz: ±1% 400 kHz to 1 MHz: ±3%







10 mV/A (= 2 V / 200 A)	
-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)	
-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)	
1000 V CAT III Anticipated transient overvoltage: 8000 V	
Safety: EN61010, EMC: EN61326	
CT6873: 3 m (9.84 ft.) CT6873-01: 10 m (32.81 ft.)	
70 mm (2.76 in.) W \times 110 mm (4.33 in.) H \times 53 mm (2.09 in.) D (excluding protruding parts and cables)	
CT6873: approx. 370 g (13.1 oz.) CT6873-01: approx. 690 g (24.3 oz.)	

CT6875A CT6875A-1

Product warranty period: 3 years

Guaranteed accuracy period: 1 year	
Rated current	500 A AC/DC
Frequency band	CT6875A: DC to 2 MHz (±3 dB) CT6875A-1: DC to 1.5 MHz (±3 dB)

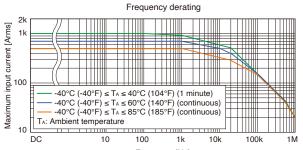
Diameter of measurable conductors Max. ϕ 36 mm (1.41 in.)

Accuracy

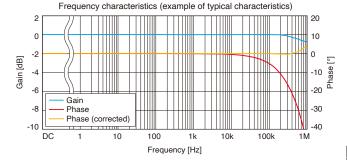
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.04% ±0.008%	-
DC < f < 16 Hz	±0.1% ±0.02%	±0.1°
16 Hz ≤ f < 45 Hz	±0.05% ±0.01%	±0.1°
45 Hz ≤ f ≤ 66 Hz	±0.04% ±0.008%	±0.08°
66 Hz < f ≤ 100 Hz	±0.05% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.1% ±0.02%	±0.2°
500 Hz < f ≤ 1 kHz	±0.2% ±0.02%	±0.4°
1 kHz < f ≤ 5 kHz	±0.4% ±0.02%	±0.5°
5 kHz < f ≤ 10 kHz	±0.4% ±0.02%	$\pm (0.1 \times f \text{ kHz})^{\circ}$
10 kHz < f ≤ 50 kHz	±1.5% ±0.05%	±(0.1 × f kHz)°
50 kHz < f ≤ 100 kHz	±2.5% ±0.05%	±(0.1 × f kHz)°
$100 \text{ kHz} < f \le 1 \text{ MHz}$	±(0.025 × f kHz)% ±0.05%	±(0.1 × f kHz)°

Combined accuracy with HIOKI power analyzer PW8001, PW6001 and PW3300 is specified (DC, 45 Hz s1 s 66 Hz). For details of combined accuracy, refer to the instruction manual. Amplitude accuracy: defined 110% of till scale or less, or within the derating curve; DC < 1 < 10 Hz is the value by design. Add ±0.01% of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale < 150 Hz s1 Hz s1 Hz by design. Add ±0.01% of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale < 150 Hz s1 Hz (s1 Hz requency band is 1.5 MHz ±3 dB): 1 Hz (s1 Hz requency band is 1.5 MHz ±3 dB): Amplitude accuracy: $\pm (0.015 \times 1$ kHz)⁶ of reading, Phase accuracy: $\pm (0.015 \times 1$ kHz)⁶

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less	
Effect of temperature	In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±20 ppm of reading / °C Offset voltage: ±1 ppm of full scale / °C	
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 140 dB or greater (50/60 Hz) 120 dB or greater (100 kHz)	
Linearity error	±5 ppm	
Offset error	±5 ppm	
Amplitude error	DC: ±10 ppm 10 Hz to 100 Hz: ±0.005% 100 Hz to 1 kHz: ±0.02% 1 kHz to 20 kHz: ±0.08%	20 kHz to 100 kHz: ±0.5% 100 kHz to 300 kHz: ±1% 300 kHz to 1 MHz: ±5%



Frequency [Hz]



Output voltage	4 mV/A (= 2 V / 500 A)	
Operating temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)	
Storage temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)	
Maximum rated voltage to ground	1000 V CAT III Anticipated transient overvoltage: 8000 V	
Standards	Safety: EN61010, EMC: EN61326	
Cable length	CT6875A: 3 m (9.84 ft.) CT6875A-1: 10 m (32.81 ft.)	
Dimensions	160 mm (6.30 in.) W \times 112 mm (4.41 in.) H \times 50 mm (1.97 in.) D (excluding protruding parts and cables)	
Weight	CT6875A: approx. 0.8 kg (28.2 oz.) CT6875A-1: approx. 1.1 kg (38.8 oz.)	

CT6904A CT6904A-1

Frequency band

(CT6904A-1: build-to-order product)



Product warranty period: 3 years Guaranteed accuracy period: 1 year

500 A AC/DC **Rated current**

CT6904A: DC to 4 MHz (±3 dB)

CT6904A-1: DC to 2 MHz (±3 dB)

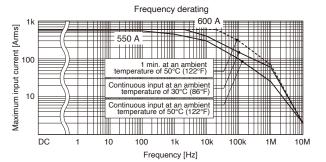
Diameter of measurable conductors Max. ϕ 32 mm (1.25 in.)

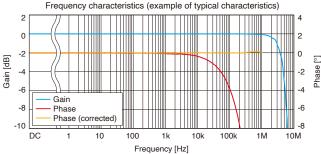
Accuracy

Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.025% ±0.007%	-
DC < f < 16 Hz	±0.2% ±0.02%	±0.1°
16 Hz ≤ f < 45 Hz	±0.1% ±0.02%	±0.1°
45 Hz ≤ f ≤ 65 Hz	±0.02% ±0.007%	±0.08°
65 Hz < f ≤ 850 Hz	±0.05% ±0.007%	±0.12°
850 Hz < f ≤ 1 kHz	±0.1% ±0.01%	±0.4°
1 kHz < f ≤ 5 kHz	±0.4% ±0.02%	±0.4°
5 kHz < f ≤ 10 kHz	±0.4% ±0.02%	±(0.08 × f kHz)°
10 kHz < f ≤ 50 kHz	±1% ±0.02%	±(0.08 × f kHz)°
50 kHz < f ≤ 100 kHz	±1% ±0.05%	±(0.08 × f kHz)°
100 kHz < f ≤ 300 kHz	±2% ±0.05%	±(0.08 × f kHz)°
300 kHz < f ≤ 1 MHz	±5% ±0.05%	±(0.08 × f kHz)°

Combined accuracy with HIOKI power analyzer PW8001 and PW6001 is specified (IOC, 45 Hz $\pm 1 \pm 55$ Hz). For details of combined accuracy, refer to the instruction manual. Amplitude accuracy and phase accuracy: defined 110% of full scale or less, or within the derating curve (continuous input at an ambient temperature of 50°C); DC $\pm 1 \pm 10$ Hz is the value by design. Add ±0.01% of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale 50 kHz ± 1 and the following for frequencies of 50 kHz ± 1 1 MHz (the frequency band is 2 MHz ± 3 dB): Amplitude accuracy: $\pm (0.015 \times 1)\%$ of reading to 100% of reading

Temperature and humidity range for guaranteed accuracy	23°C ±5°C (73°F ±9°F), 80% RH or less
Effect of temperature	In ranges from -10°C to 18°C (14°F to 64.4°F) or 28°C to 50°C (82.4°F to 122°F) Amplitude sensitivity: ±20 ppm of of reading / °C Offset voltage: ±1 ppm of full scale / °C Phase: ±0.01°/°C
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 140 dB or greater (50/60 Hz) 120 dB or greater (100 kHz)
Linearity error	±5 ppm
Offset error	±10 ppm





Output voltage 4 mV/A (= 2 V / 500 A) -10°C to 50°C (-14°F to 122°F), 80% RH or less (no Operating temperature and humidity range ondensation) 20°C to 60°C (-4°F to 140°F), 80% RH or less Storage temperature and humidity range (no condensation) Maximum rated voltage to 1000 V CAT III Anticipated transient overvoltage: 8000 V ground Safety: EN61010, EMC: EN61326 Standards CT6904A: 3 m (9.84 ft.) (including relay box)) Cable length CT6904A-1: 10 m (32.81 ft.) (including relay box) 139 mm (5.47 in.) W × 120 mm (4.72 in.) H × 52 mm (2.05 Dimensions in.) D (excluding protrusions and cables) CT6904A: approx. 1.05 kg (37.0 oz.) CT6904A-1: approx. 1.35 kg (47.6 oz.) Weight

CT6904A-2 CT6904A-3

(Build-to-order product)

Product warranty period: 3 years

Guaranteed accuracy period: 1 year	
Rated current	800 A AC/DC
Frequency band	CT6904A-2: DC to 4 MHz (±3 dB) CT6904A-3: DC to 2 MHz (±3 dB)

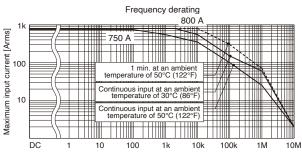
Diameter of measurable conductors Max. ϕ 32 mm (1.25 in.)

Accuracy

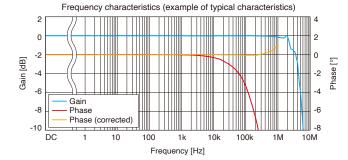
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.030% ±0.009%	-
DC < f < 16 Hz	±0.2% ±0.025%	±0.1°
16 Hz ≤ f < 45 Hz	±0.1% ±0.025%	±0.1°
45 Hz ≤ f ≤ 65 Hz	±0.025% ±0.009%	±0.08°
65 Hz < f ≤ 850 Hz	±0.05% ±0.009%	±0.12°
850 Hz < f ≤ 1 kHz	±0.1% ±0.013%	±0.4°
1 kHz < f ≤ 5 kHz	±0.4% ±0.025%	±0.4°
5 kHz < f ≤10 kHz	±0.4% ±0.025%	±(0.08 × f kHz)°
10 kHz < f ≤ 50 kHz	±1% ±0.025%	±(0.08 × f kHz)°
50 kHz < f ≤ 100 kHz	±1% ±0.063%	±(0.08 × f kHz)°
100 kHz < f ≤ 300 kHz	±2% ±0.063%	±(0.08 × f kHz)°
$300 \text{ kHz} < f \le 1 \text{ MHz}$	±5% ±0.063%	$\pm (0.08 \times f \text{ kHz})^{\circ}$

Combined accuracy with HIOKI power analyzer PW8001 and PW6001 is specified (DC, 45 Hz s1 s65 Hz). For details of combined accuracy, refer to the instruction manual. Amplitude accuracy and phase accuracy are specified by the following conditions: - Rated value or less - At 100Hz or more and within the range of "Continuous input at an ambient temperature of SO"C (122/F)" described in the frequency derating graph below - For the CT6904A-3, add the following for frequencies of 50 kHz <1 ≤ 1 MHz (frequency band is 2 MHz ±3): Amplitude accuracy: \pm (0.015 × f)% of reading

Temperature and humidity range for guaranteed accuracy	23°C ±5°C (73°F ±9°F), 80% RH or less
Effect of temperature	In ranges from -10°C to 18°C (14°F to 64.4°F) or 28°C to 50°C (82.4°F to 122°F) Amplitude sensitivity: ± 50 ppm of reading / °C Offset voltage: ±5 ppm of full scale / °C Phase: ±0.01° / °C
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 140 dB or greater (50/60 Hz) 120 dB or greater (100 kHz)
Linearity error	±12.5 ppm
Offset error	±10 ppm



Frequency [Hz]



Output voltage	2 mV/A (= 2 V / 1000 A)	
Operating temperature and humidity range	-10°C to 50°C (-14°F to 122°F), 80% RH or less (no condensation)	
Storage temperature and humidity range	-20°C to 60°C (-4°F to 140°F), 80% RH or less (no condensation)	
Maximum rated voltage to ground	1000 V CAT III Anticipated transient overvoltage: 8000 V	
Standards	Safety: EN61010, EMC: EN61326	
Cable length	CT6904A-2: 3 m (9.84 ft.) (including relay box) CT6904A-3: 10 m (32.81 ft.) (including relay box)	
Dimensions	139 mm (5.47 in.) W \times 120 mm (4.72 in.) H \times 52 mm (2.05 in.) D (excluding protrusions and cables)	
Weight	CT6904A-2: approx. 1.15 kg (40.6 oz.) CT6904A-3: approx. 1.45 kg (51.1 oz.)	

CT6876A CT6876A-1



Product warranty period: 3 years Guaranteed accuracy period: 1 year

Rated current	1000 A AC/DC
Frequency band	CT6876A: DC to 1.5 MHz (±3 dB)
	CT6876A-1: DC to 1.2 MHz (±3 dB)

Diameter of measurable conductors Max. ϕ 36 mm (1.41 in.)

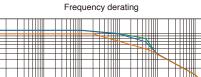
Accuracy

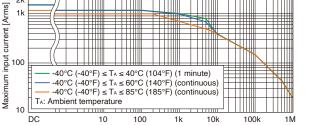
2k

Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.04% ±0.008%	-
DC < f < 16 Hz	±0.1% ±0.02%	±0.1°
16 Hz ≤ f < 45 Hz	±0.05% ±0.01%	±0.1°
45 Hz ≤ f ≤ 66 Hz	±0.04% ±0.008%	±0.08°
66 Hz < f ≤ 100 Hz	±0.05% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.1% ±0.02%	±0.2°
500 Hz < f ≤ 1 kHz	±0.2% ±0.02%	±0.4°
1 kHz < f ≤ 5 kHz	±0.5% ±0.02%	±0.5°
5 kHz < f ≤ 10 kHz	±0.5% ±0.02%	±(0.1 × f kHz)°
10 kHz < f ≤ 50 kHz	±2% ±0.05%	±(0.1 × f kHz)°
50 kHz < f ≤ 100 kHz	±3% ±0.05%	±(0.1 × f kHz)°
100 kHz < f ≤ 1 MHz	±(0.03 × f kHz)% ±0.05%	±(0.1 × f kHz)°

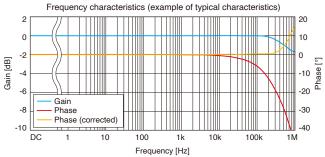
Combined accuracy with HIOKI power analyzer PW8001, PW8001 and PW3390 is specified (DC, 45 Hz sf s66 Hz). For details of combined accuracy, refer to the instruction manual. Amplitude accuracy and hase accuracy: defined 110% of full scale or less or within the derating curve; DC st < 10 Hz is the value by design Add ±0.01% of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale is 110% of full scale to 110% of full scale to 110% of full scale is 76 m Hz. The CT6876A-1, add the following for frequencies of 1 kHz < f ≤ 1 MHz (the frequency band is 1.2 MHz ±3 dB): Amplitude accuracy: $\pm (0.005 \times f \text{ kHz})\%$ of reading, Phase accuracy: $\pm (0.015 \times f \text{ kHz})\%$

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less	
Effect of temperature	In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±20 ppm of reading / °C Offset voltage: ±1 ppm of full scale / °C	
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 140 dB or greater (50/60 Hz) 120 dB or greater (100 kHz)	
Linearity error	±5 ppm	
Offset error	±5 ppm	
Amplitude error	DC: ±10 ppm 10 Hz to 100 Hz: ±0.005% 100 Hz to 1 kHz: ±0.03% 1 kHz to 10 kHz: ±0.2%	10 kHz to 100 kHz: ±1% 100 kHz to 300 kHz: ±3% 300 kHz to 1 MHz: ±15%









Output voltage	2 mV/A (= 2 V / 1000 A)
Operating temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Maximum rated voltage to ground	1000 V CAT III Anticipated transient overvoltage: 8000 V
Standards	Safety: EN61010, EMC: EN61326
Cable length	CT6876A: 3 m (9.84 ft.) CT6876A-1: 10 m (32.81 ft.)
Dimensions	160 mm (6.30 in.) W \times 112 mm (4.41 in.) H \times 50 mm (1.97 in.) D (excluding protruding parts and cables)
Weight	CT6876A: approx. 0.95 kg (33.5 oz.) CT6876A-1: approx. 1.25 kg (44.1 oz.)





Product warranty period: 3 years Guaranteed accuracy period: 1 year

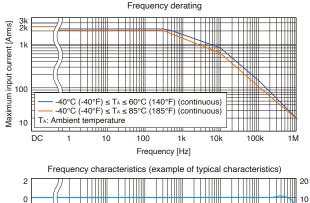
Rated current	2000 A AC/DC
Frequency band	DC to 1 MHz
Diameter of measurable conductors	Max. φ 80 mm (3.14 in.)

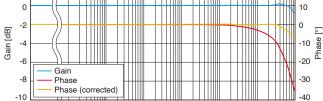
Accuracy

Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.04% ±0.008%	-
DC < f < 16 Hz	±0.1% ±0.02%	±0.1°
16 Hz ≤ f < 45 Hz	±0.05% ±0.01%	±0.1°
45 Hz ≤ f ≤ 66 Hz	±0.04% ±0.008%	±0.08°
66 Hz < f ≤ 100 Hz	±0.05% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.1% ±0.02%	±0.2°
500 Hz < f ≤ 1 kHz	±0.2% ±0.02%	±0.4°
1 kHz < f ≤ 5 kHz	±0.5% ±0.02%	± (0.3 + 0.1 × f kHz)°
5 kHz < f ≤ 10 kHz	±0.5% ±0.02%	± (0.3 + 0.1 × f kHz)°
10 kHz < f ≤ 50 kHz	±1.5% ±0.05%	± (0.3 + 0.1 × f kHz)°
50 kHz < f ≤ 100 kHz	±2.5% ±0.05%	± (0.3 + 0.1 × f kHz)°
100 kHz < f ≤ 700 kHz	±(0.025 × f)% ±0.05%	± (0.3 + 0.1 × f kHz)°

Combined accuracy with HIOKI power analyzer PW8001, PW8001 and PW3390 is specified (DC, 45 Hz \pm f \pm 66 Hz). For details of combined accuracy, refer to the instruction manual. Amplitude accuracy and phase accuracy: defined 110% of full scale or less, or within the derating curve, DC < f < 10 Hz is the value by design Add 40.01% of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale - For the CT6877A-1, add the following for frequencies of 1 kHz < f \pm 700 kHz: Amplitude accuracy: \pm (0.005 × f)% of reading, Phase accuracy: \pm (0.015 × f)°

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less	
Effect of temperature	In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±15 ppm of reading / °C Offset voltage: ±0.5 ppm of full scale / °C	
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 140 dB or greater (50/60 Hz) 120 dB or greater (100 kHz)	
Linearity error	±10 ppm	
Offset error	±5 ppm	
Amplitude error	DC: ±15 ppm 10 Hz to 100 Hz: ±0.01% 100 Hz to 1 kHz: ±0.04% 1 kHz to 10 kHz: ±0.25%	10 kHz to 100 kHz: ±1% 100 kHz to 300 kHz: ±2% 300 kHz to 700 kHz: ±10%





DC 10 100 1k 10k 100k 1M 1 Frequency [Hz] Output voltage 1 mV/A (= 2 V / 2000 A) Operating temperature and -40°C to 85°C (-40°F to 185°F), 80% RH or less humidity range (no condensation) Storage temperature and humidity range -40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation) Maximum rated voltage to 1000 V CAT III ground Anticipated transient overvoltage: 8000 V Standards Safety: EN61010, EMC: EN61326 CT6877A: 3 m (9.84 ft.) Cable length CT6877A-1: 10 m (32.81 ft.) 229 mm (9.02 in.) W × 232 mm (9.13 in.) H × 112 mm Dimensions (4.41 in.) D (excluding protruding parts and cables) CT6877A: approx. 5 kg (176.4 oz.) Weight CT6877A-1: approx. 5.3 kg (187.0 oz.)

PW9100A-3 **PW9100A-4**



*Direct Connection Current Transducer

Product warranty period: 3 years Guaranteed accuracy period: 1 year

Rated current	50 A AC/DC
Frequency band	DC to 3.5 MHz
Input and measurement method	Isolated input, DCCT* input
Measurement terminals	Terminal block M6 screws

Accuracy

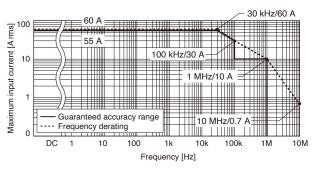
Rejection (CMRR)

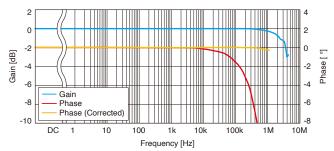
Accuracy		
Amplitude ±(% of reading + % of full scale)	Phase	
±0.02% ±0.007%	-	
±0.1% ±0.02%	±0.3°	
±0.1% ±0.02%	±0.1°	
±0.02% ±0.005%	±0.1°	
±0.1% ±0.01%	±0.12°	
±0.1% ±0.01%	±0.5°	
±0.5% ±0.02%	±0.5°	
±1% ±0.02%	±1°	
±1% ±0.02%	±(0.05 × f kHz)°	
±2% ±0.05%	±(0.06 × f kHz)°	
±5% ±0.05%	±(0.06 × f kHz)°	
±5% ±0.05%	±(0.07 × f kHz)°	
±10% ±0.05%	±(0.07 × f kHz)°	
	±(% of reading + % of full scale) ±0.02% ±0.007% ±0.1% ±0.02% ±0.1% ±0.02% ±0.02% ±0.005% ±0.1% ±0.01% ±0.1% ±0.01% ±0.5% ±0.02% ±1% ±0.02% ±1% ±0.02% ±1% ±0.02% ±2% ±0.05%	

Combined accuracy with HIOKI power analyzer PW8001, PW6001 and PW3390 is specified (DC, 45 Hz s1 s65 Hz). For details of combined accuracy, refer to the instruction manual. - Amplitude accuracy and phase accuracy: defined within the accuracy guarantee range shown in the derating figure below; DC < 1 < 10 Hz is the value by design. - Add $\pm 0.01\%$ of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale to $\pm 0.01\%$ of full scale to \pm

о .	
Temperature and humidity range for guaranteed accuracy	23°C ±5°C (73°F ±9°F), 80% RH or less
Effect of temperature	In ranges from 0°C to 18°C (32°F to 64°F) and 28°C to 40°C (82°F to 104°F) Amplitude sensitivity: ±20 ppm of reading /°C Offset voltage: ±1 ppm of full scale / °C Phase: ±0.01° / °C
O a service a service of a	

(effect on output voltage and common mode voltage) 120 dB or greater (50/60 Hz, 100 kHz) ction Ratio





Output voltage	40 mV/A (= 2 V / 50 A)
Operating temperature and humidity range	0°C to 40°C (32°F to 104°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-10°C to 50°C (14°F to 122°F), 80% RH or less (no condensation)
Maximum rated voltage to ground	600 V CAT III, 1000 V CAT II Anticipated transient overvoltage: 6000 V
Standards	Safety: EN 61010, EMC: EN 61326 Class A
Cable length	0.8 m (2.62 ft.)
Dimensions	430 mm (16.9 in.) W × 88 mm (3.46 in.) H × 260 mm (10.23 in.) D
Weight	PW9100A-3: approx. 3.7 kg (130.5 oz.) PW9100A-4: approx. 4.3 kg (151.7 oz.)

CT6830





Product warranty period: 3 years Guaranteed accuracy period: 1 year

Rated current	AC/DC 2 A
Frequency band	DC to 100 kHz

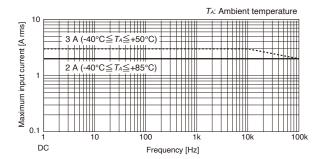
Diameter of measurable conductors Max. ϕ 5 mm (0.20 in.)

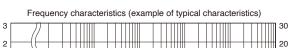
Accuracy

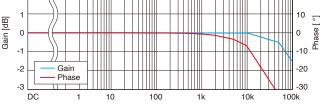
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.3% + 0.10%	-
$DC < f \le 66Hz$	±0.3% + 0.05%	±0.1°
66Hz < f ≤ 500Hz	±0.3% + 0.05%	±0.7°
$500Hz < f \le 1kHz$	±0.5% + 0.05%	±2.0°
1kHz < f ≤ 5kHz	±1.0% + 0.10%	±7.0°
$5kHz < f \le 10kHz$	±5.0% + 0.10%	±15.0°
$10kHz < f \le 100kHz$	±30.0% + 0.10%	-

DC accuracy is specified by adjusting the offset voltage to ±0.5mV or less with the 0ADJ dial or after performing 0 ADJ on the connected device.
 Offset voltage is ±0.005% f.s./°C added from the ambient temperature at the time of 0ADJ.
 Amplitude accuracy and phase accuracy are specified within 110% of full scale and within the derating range.
 DC<<10 Hz are design value.

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less
Effect of temperature	In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±0.01% of reading /°C Offset voltage: ±0.05% of full scale / °C
Common-Mode Rejection Ratio (CMRR)	140 dB or greater (DC to 100 Hz) 125 dB or greater (100 Hz to 1 kHz) (effect on output voltage and common mode voltage)







Frequency	[Hz]
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Output voltage	1 V/A
Operating temperature and humidity range	Sensor: -40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation) Multiplexer: -25°C to 50°C (-13°F to 122°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-25°C to 50°C (-13°F to 122°F), 80% RH or less (no condensation) (Sensor and multiplexer)
Standards	Safety: EN 61010, EMC: EN 61326
Cable length	Between sensor to multiplexer: approx. 4 m (13.12 ft.) Between multiplexer to output connector: approx 0.2 m (0.66 ft.)
Dimensions	Sensor: Approx. 76.5W × 23.4H × 14.2D mm (approx. 3.00W × 0.92H × 0.56D in.) Multiplexer: Approx. 80W × 20H × 26.5D mm (approx. 3.15W × 0.79H × 1.04D in.)
Weight	Approx. 160 g (5.64 oz.)

CT6831 NEW

Product warranty period: 3 years Guaranteed accuracy period: 1 year



Rated current

AC/DC 20 A Frequency band DC to 100 kHz Diameter of measurable conductors Max. φ 5 mm (0.20 in.)

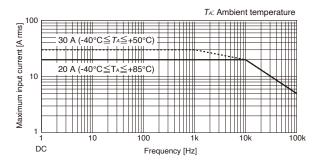
Accuracy

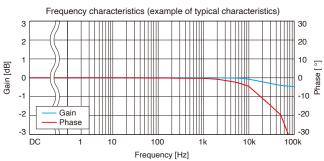
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.3% + 0.10%	-
$DC < f \le 66Hz$	±0.3% + 0.01%	±0.1°
66Hz < f ≤ 500Hz	±0.3% + 0.02%	±0.7°
$500Hz < f \le 1kHz$	±0.5% + 0.05%	±2.0°
1kHz < f ≤ 5kHz	±1.0% + 0.10%	±7.0°
$5kHz < f \le 10kHz$	±5.0% + 0.10%	±15.0°
$10kHz < f \le 100kHz$	±30.0% + 0.10%	-

DC accuracy is specified by adjusting the offset voltage to ±0.5mV or less with the 0ADJ dial or after performing 0 ADJ on the connected device. Amplitude accuracy and phase accuracy are specified within 110% of full scale and within the derating range.

range. DC<f<10 Hz are design value.

Temperature and humidity range for guaranteed 0°C to 40°C (32°F to 104°F), 80% RH or less accuracy In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Effect of temperature Amplitude sensitivity: ±0.01% of reading /°C Offset voltage: ±0.01% of full scale / °C Common-Mode Rejection Ratio (CMRR) 140 dB or greater (DC to 100 Hz) 130 dB or greater (100 Hz to 1 kHz) (effect on output voltage and common mode voltage)





Output voltage	0.1 V/A (=2 V/20 A)
Operating temperature and humidity range	Sensor: -40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation) Multiplexer: -25°C to 50°C (-13°F to 122°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-25°C to 50°C (-13°F to 122°F), 80% RH or less (no condensation) (Sensor and multiplexer)
Standards	Safety: EN 61010, EMC: EN 61326
Cable length	Between sensor to multiplexer: approx. 4 m (13.12 ft.) Between multiplexer to output connector: approx 0.2 m (0.66 ft.)
Dimensions	Sensor: Approx. 76.5W × 23.4H × 14.2D mm (approx. 3.00W × 0.92H × 0.56D in.) Multiplexer: Approx. 80W × 20H × 26.5D mm (approx. 3.15W × 0.79H × 1.04D in.)
Weight	Approx. 160 g (5.64 oz.)

Product warranty period: 3 years

Rated current	20 A AC/DC
Frequency band	DC to 2 MHz
Diameter of measurable conductors	Max.

Accuracy

Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.2% ±0.05%*	-
DC < f ≤ 100 Hz	±0.2% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.3% ±0.02%	±0.2°
500 Hz < f ≤ 1 kHz	±0.5% ±0.02%	±0.5°
1 kHz < f≤ 5 kHz	±1.0% ±0.02%	±1.0°
5 kHz < f≤ 10 kHz	±1.5% ±0.02%	±1.5°
10 kHz < f≤ 50 kHz	±2.0% ±0.02%	$\pm (0.5 + 0.1 \times f \text{ kHz})^{\circ}$
50 kHz < f≤ 100 kHz	±5.0% ±0.05%	± (0.5 + 0.1 × f kHz)°
100 kHz < f≤ 300 kHz	±10% ±0.05%	± (0.5 + 0.1 × f kHz)°
300 kHz < f≤ 500 kHz	±15% ±0.05%	± (0.5 + 0.1 × f kHz)°
500 kHz < f < 1 MHz	±30% ±0.05%	$\pm (0.5 + 0.1 \times f \text{ kHz})^{\circ}$

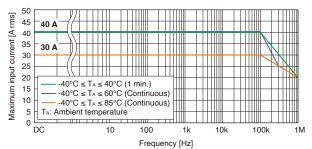
Combined accuracy with HIOKI power analyzer PW8001, PW6001 and PW3390 is specified (IDC, 45 Hz s1 \leq 66 Hz). For details of combined accuracy, refer to the instruction manual. "DC accuracy after adjusting the offset voltage to 4.05 mV or less."

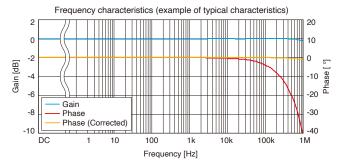
The values above are when the input is a sine wave or DC, the measurement instrument's input resistance is 1 MQ ± 10%, voltage to ground 0 V, no external magnetic fields and the conductor is in the center of the sensor opening. • Amplitude accuracy and phase accuracy are defined 110% of full scale or less and within the derating curve. DC < f < 10 Hz is a design value. • Add ±0.03% of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale.

Temperature and humidity

range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less
Effect of temperature	In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±0.01% of reading /°C Offset voltage: ±0.005% of full scale / °C
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 140 dB or greater (DC to 1 kHz) 125 dB or greater (1 kHz to 10 kHz) 100 dB or greater (10 kHz to 100 kHz) 80 dB or greater (100 kHz to 1 MHz)
Linearity error	±20 ppm

Frequency derating





Output voltage	100 mV/A (= 2 V / 20 A)	
Measurable conductors	Insulated conductor	
Operating temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)	
Storage temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)	
Withstand voltage	4260 V AC Withstand test current of 1 mA, 50/60 Hz, 1 min., between jaws and cable output terminal	
Standards	Safety: EN 61010, EMC: EN 61326	
Cable length	3 m (9.84 ft.)	
Dimensions	153 mm (6.02 in.) W \times 67 mm (2.64 in.) H \times 25 mm (0.98 in.) D (excluding protruding parts and cables)	
Weight	Approx. 370 g (13.1 oz.)	

CT6843A



Product warranty period: 3 years Guaranteed accuracy period: 1 year

Rated current	200 A AC/DC
Frequency band	DC to 700 kHz
Diameter of measurable conductors	Max. φ 20 mm (0.79 in.)

Accuracy

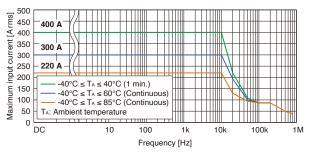
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.2% ±0.02%*	-
DC < f ≤ 100 Hz	±0.2% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.3% ±0.02%	±0.2°
500 Hz < f ≤ 1 kHz	±0.5% ±0.02%	±0.5°
1 kHz < f ≤ 5 kHz	±1.0% ±0.02%	±1.0°
5 kHz < f ≤ 10 kHz	±1.5% ±0.02%	±1.5°
10 kHz < f ≤ 50 kHz	±5.0% ±0.02%	± (0.5 + 0.1 × f kHz)°
50 kHz < f ≤ 100 kHz	±15% ±0.05%	± (0.5 + 0.1 × f kHz)°
100 kHz < f ≤ 300 kHz	±15% ±0.05%	± (0.5 + 0.1 × f kHz)°
300 kHz < f ≤ 500 kHz	±30% ±0.05%	± (0.5 + 0.1 × f kHz)°

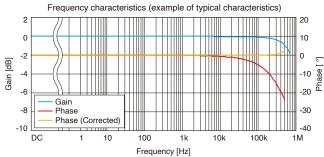
Combined accuracy with HIOKI power analyzer PW8001, PW6001 and PW3390 is specified (DC, 45 Hz s1 s 66 Hz). For details of combined accuracy, refer to the instruction manual. "DC accuracy after adjusting the offset voltage to a 0.2 mV or less."

The values above are when the input is a sine wave or DC, the measurement instrument's input resistance is 1 MQ ± 10%, voltage to ground 0 V, no external magnetic fields and the conductor is in the center of the sensor opening. Amplitude accuracy and phase accuracy are defined 110% of full scale or less and within the derating curve. DC < t < 10 Hz is a design value. Add ±0.03% of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale.

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less
Effect of temperature	In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±0.01% of reading /°C Offset voltage: ±0.005% of full scale / °C
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 150 dB or greater (DC to 1 kHz) 135 dB or greater (1 kHz to 100 kHz) 115 dB or greater (10 kHz to 100 kHz) 95 dB or greater (100 kHz to 500 kHz)
Linearity error	±20 ppm

Frequency derating





Output voltage	10 mV/A (= 2 V / 200 A)
Measurable conductors	Insulated conductor
Operating temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Withstand voltage	4260 V AC Withstand test current of 1 mA, 50/60 Hz, 1 min., between jaws and cable output terminal
Standards	Safety: EN 61010, EMC: EN 61326
Cable length	3 m (9.84 ft.)
Dimensions	153 mm (6.02 in.) W \times 67 mm (2.64 in.) H \times 25 mm (0.98 in.) D (excluding protruding parts and cables)
Weight	Approx. 380 g (13.4 oz.)

CT6844A



Product warranty period: 3 years Guaranteed accuracy period: 1 year

Rated current	500 A AC/DC
Frequency band	DC to 500 kHz
Diameter of measurable conductors	Max. φ 20 mm (0.79 in.)

Accuracy

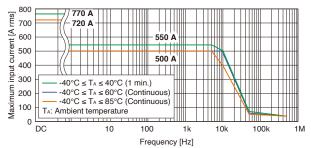
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.2% ±0.02%*	-
DC < f ≤ 100 Hz	±0.2% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.3% ±0.02%	±0.2°
500 Hz < f ≤ 1 kHz	±0.5% ±0.02%	±0.5°
1 kHz < f ≤ 5 kHz	±1.0% ±0.02%	±1.0°
$5 \text{ kHz} < f \le 10 \text{ kHz}$	±1.5% ±0.02%	±1.5°
10 kHz < f ≤ 50 kHz	±5.0% ±0.02%	±(0.15 × f kHz)°
50 kHz < f ≤ 100 kHz	±15% ±0.05%	±(0.15 × f kHz)°
100 kHz < f \leq 300 kHz	±30% ±0.05%	±(0.15 × f kHz)°

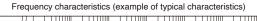
Combined accuracy with HIOKI power analyzer PW8001, PW6001 and PW3390 is specified (DC, 45 Hz \le f \le 66 Hz). For details of combined accuracy, refer to the instruction manual. *DC accuracy after adjusting the offset voltage to \pm 0.2 mV or less.

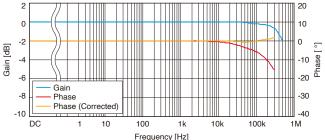
The values above are when the input is a sine wave or DC, the measurement instrument's input resistance is 1 M\Omega \pm 10%, voltage to ground 0 V, no external magnetic fields and the conductor is in the center of the sensor opening. Amplitude accuracy and phase accuracy are defined 110% of full scale or less and within the derating curve. DC <1 < 10 Hz is a design value.

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less
Effect of temperature	In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±0.01% of reading /°C Offset voltage: ±0.005% of full scale / °C
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 150 dB or greater (DC to 1 kHz) 135 dB or greater (1 kHz to 10 kHz) 120 dB or greater (10 kHz to 100 kHz) 100 dB or greater (100 kHz to 300 kHz)
Linearity error	±20 ppm

Frequency derating







Output voltage 4 mV/A (= 2 V / 500 A) Measurable conductors Insulated conductor -40°C to 85°C (-40°F to 185°F), 80% RH or less Operating temperature and humidity range (no condensation) Storage temperature and humidity range -40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation) 4260 V AC Withstand voltage Withstand test current of 1 mA, 50/60 Hz, 1 min., between jaws and cable output terminal Safety: EN 61010, EMC: EN 61326 Standards 3 m (9.84 ft.) Cable length 153 mm (6.02 in.) W \times 67 mm (2.64 in.) H \times 25 mm (0.98 in.) D (excluding protruding parts and cables) Dimensions Approx. 400 g (14.1 oz.) Weight

CT6845A



Product warranty period: 3 years Guaranteed accuracy period: 1 year

Rated current	500 A AC/DC
Frequency band	DC to 200 kHz
Diameter of measurable conductors	Max. φ 50 mm (1.97 in.)

Accuracy

1

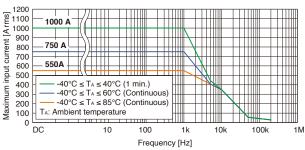
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.2% ±0.02%*	-
DC < f ≤ 100 Hz	±0.2% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.3% ±0.02%	±0.2°
500 Hz < f ≤ 1 kHz	±0.5% ±0.02%	±0.5°
1 kHz < f ≤ 5 kHz	±1.0% ±0.02%	±(0.5 × f kHz)°
5 kHz < f ≤ 10 kHz	±1.5% ±0.02%	±(0.5 × f kHz)°
10 kHz < f ≤ 20 kHz	±5.0% ±0.02%	±(0.5 × f kHz)°
20 kHz < f ≤ 50 kHz	±10% ±0.05%	±(0.5 × f kHz)°
50 kHz < f ≤ 100 kHz	±30% ±0.05%	±(0.5 × f kHz)°

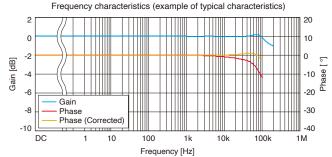
Combined accuracy with HIOKI power analyzer PW8001, PW6001 and PW3390 is specified (DC, 45 Hz s1 ≤ 66 Hz). For details of combined accuracy, refer to the instruction manual. *DC accuracy after adjusting the offset voltage to ±0.2 mV or less.

The values above are when the input is a sine wave or DC, the measurement instrument's input resistance is 1 MO2 + 10%, voltage to ground 0 V, no external magnetic fields and the conductor is in the center of the sensor opening. Amplitude accuracy and phase accuracy are defined 110% of full scale or less and within the derating curve. DC < f < 10 Hz is a design value. Add $\pm 0.03\%$ of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale.

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less
Effect of temperature	In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±0.01% of reading /°C Offset voltage: ±0.005% of full scale / °C
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 150 dB or greater (DC to 1 kHz) 130 dB or greater (1 kHz to 10 kHz) 100 dB or greater (10 kHz to 100 kHz)
Linearity error	±20 ppm

Frequency derating





Output voltage	4 mV/A (= 2 V / 500 A)
Measurable conductors	Insulated conductor
Operating temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Withstand voltage	4260 V AC Withstand test current of 1 mA, 50/60 Hz, 1 min., between jaws and cable output terminal
Standards	Safety: EN 61010, EMC: EN 61326
Cable length	3 m (9.84 ft.)
Dimensions	238 mm (9.37 in.) W \times 116 mm (4.57 in.) H \times 35 mm (1.38 in.) D (excluding protruding parts and cables)
Weight	Approx. 860 g (30.3 oz.)

CT6846A

Product warranty period: 3 years

Guaranteed accuracy penou. I year	
Rated current	1000 A AC/DC
Frequency band	DC to 100 kHz
Diameter of measurable conductors	Мах. ф. 50 mm (1.97 in.)

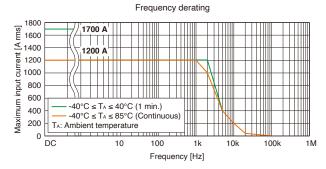
Accuracy

Frequency	Amplitude ±(% of reading + % of full scale)	Phase
DC	±0.2% ±0.02%*	-
DC < f ≤ 100 Hz	±0.2% ±0.01%	±0.1°
100 Hz < f ≤ 500 Hz	±0.5% ±0.02%	±0.2°
500 Hz < f ≤ 1 kHz	±1.0% ±0.02%	±0.5°
$1 \text{ kHz} < f \le 5 \text{ kHz}$	±2.0% ±0.02%	±(0.7 × f kHz)°
5 kHz < f ≤ 10 kHz	±5.0% ±0.02%	±(0.7 × f kHz)°
10 kHz < f \leq 50 kHz	±30% ±0.02%	±(0.7 × f kHz)°

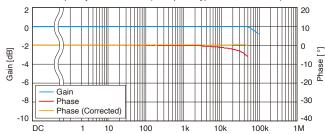
Combined accuracy with HIOKI power analyzer PW8001, PW6001 and PW3390 is specified (DC, 45 Hz s1 s 66 Hz). For details of combined accuracy, refer to the instruction manual. ToC accuracy after adjusting the offset voltage to ± 0.2 mV or less.

The values above are when the input is a sine wave or DC, the measurement instrument's input resistance is 1 MQ + 10%, voltage to ground 0 V, no external magnetic fields and the conductor is in the center of the sensor opening. • Amplitude accuracy and phase accuracy are defined 110% of full scale or less and within the derating curve. DC < t < 10 Hz is a design value. • Add ±0.03% of reading to the amplitude accuracy for input from 100% of full scale to 110% of full scale.

Temperature and humidity range for guaranteed accuracy	0°C to 40°C (32°F to 104°F), 80% RH or less
Effect of temperature	In ranges from -40°C to 0°C (-40°F to 32°F) and 40°C to 85°C (104°F to 185°F) Amplitude sensitivity: ±0.01% of reading /°C Offset voltage: ±0.005% of full scale / °C
Common-Mode Rejection Ratio (CMRR)	(effect on output voltage and common mode voltage) 150 dB or greater (DC to 1 kHz) 130 dB or greater (1 kHz to 10 kHz) 100 dB or greater (10 kHz to 50 kHz)
Linearity error	±20 ppm



Frequency characteristics (example of typical characteristics)



Frequency [Hz]

Output voltage	2 mV/A (= 2 V / 1000 A)
Measurable conductors	Insulated conductor
Operating temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-40°C to 85°C (-40°F to 185°F), 80% RH or less (no condensation)
Withstand voltage	4260 V AC Withstand test current of 1 mA, 50/60 Hz, 1 min., between jaws and cable output terminal
Standards	Safety: EN 61010, EMC: EN 61326
Cable length	3 m (9.84 ft.)
Dimensions	238 mm (9.37 in.) W \times 116 mm (4.57 in.) H \times 35 mm (1.38 in.) D (excluding protruding parts and cables)
Weight	Approx. 990 g (34.9 oz.)

9272-05



Product warranty period: 3 years Guaranteed accuracy period: 1 year

Rated current	20 A AC, 200 A AC (2 ranges)
Frequency band	1 Hz to 100 kHz
Diameter of measurable conductors	φ 46 mm or less

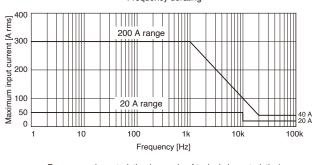
Accuracy

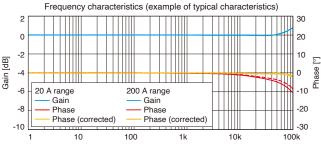
Frequency	Amplitude ±(% of reading + % of full scale)	Phase
1 Hz ≤ f < 5 Hz	±2.0% ±0.10%	-
5 Hz ≤ f < 10 Hz	±1.0% ±0.05%	±1.0°
10 Hz ≤ f < 45 Hz	±0.5% ±0.02%	±0.5°
45 Hz ≤ f ≤ 66 Hz	±0.3% ±0.01%	±0.2°
66 Hz < f ≤ 500 Hz	±0.5% ±0.02%	±0.5°
500 Hz < f ≤ 1 kHz	±0.5% ±0.02%	±1.0°
1 kHz < f ≤ 5 kHz	±1.0% ±0.05%	±2.0°
5 kHz < f ≤ 10 kHz	±2.5% ±0.10%	±3.0°
10 kHz < f ≤ 20 kHz	±5% ±0.1%	±5.0°
20 kHz < f ≤ 50 kHz	±5% ±0.1%	±15.0°
50 kHz < f ≤ 100 kHz	±30% ±0.1%	-

Accuracy is specified by the following conditions: • Less than or equal to the rated current of each current range • Within derating range of each current range The accuracy values above are for within the rated current for each range and inside of derating range. (The values are the values by design: amplitude at under 5 Hz and phase at under 10 Hz)

Temperature and humidity range for guaranteed accuracy	23°C ±5°C (73°F ±9°F), 80% RH or less
Effect of temperature	Amplitude sensitivity: ±0.03% of reading /°C







Frequency [Hz]

Output voltage	20 A range: 100 mV/A (= 2 V / 20 A) 200 A range: 10 mV/A (= 2 V / 200 A)
	o (<i>i</i>
Operating temperature and	0°C to 50°C (32°F to 122°F), 80% RH or less (no
humidity range	condensation)
, ,	10%C to C0%C (14%E to 140%E) 00% DU or loss (so
Storage temperature and	-10°C to 60°C (14°F to 140°F), 80% RH or less (no
humidity range	condensation)
Maximum rated voltage to	600 V AC CAT III (50/60 Hz)
	Anticipated transient overvoltage: 6000 V
ground	Anticipated transient overvoltage: 6000 v
Standards	Safety: EN 61010, EMC: EN 61326 Class A
Cable length	3 m (9.84 ft.)
	78 mm (3.07 in) W × 188 mm (7.40 in) H × 35 mm (1.38
Dimensions	
Bimonorio	in) D (excluding protruding parts and cables)
Weight	Approx. 450 g (15.9 oz.)
Hoight	(10.0 02.)

CT6710

Product warranty period: 1 year Guaranteed accuracy period: 1 year



Rated current* (3 ranges)	30 Arms, 5 Arms, 0.5 Arms AC/DC
Frequency band	DC to 50 MHz (-3dB)
Diameter of measurable conductors	Max. φ 5 mm (0.20 in.) (insulated conductors)

*DC or sine wave signals of 45 to 66 Hz, within maximum peak current for each range

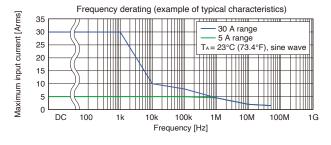
Rise time	7.0 ns or less (10% to 90%)	
Output voltage	0.1 V/A (30 A range) 1 V/A (5 A range) 10 V/A (0.5 A range)	
Maximum peak current	±50 A peak*1 (30 A range) ±7.5 A peak (5 A range) ±0.75 A peak (0.5 A range, ≥ 10 MHz) ±0.3 A peak (0.5 A range, < 10 MHz)	
Noise	75 μArms or less*2 (typical: 60 μArms)	

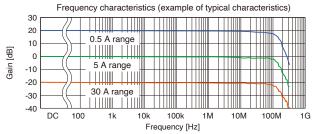
*1: Maximum 2 sec input; requires cooling time of at least 10 times longer than the time current has been input ?2: Does not apply to devices to which the probe is connected; applicable in the 0.5 A range and when used with 20 MHz bandwidth instrument devices

Accuracy (amplitude)

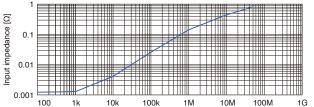
Range	Accuracy	typical
30 A	±3.0% of reading ±1 mV	$\pm 1.0\%$ of reading $\pm 1 \text{ mV} (\leq 10 \text{ A})$
5 A	±3.0% of reading ±1 mV	±1.0% of reading ±1 mV
0.5 A	±3.0% of reading ±10 mV	±1.0% of reading ±10 mV

The accuracy above is valid within the following conditions: Warm-up time: 30 minutes, operating environment of $23^{\circ}C\pm 5^{\circ}C$ ($73^{\circ}F\pm 9^{\circ}F$) at 80% RH or less, DC or sine wave signals of 45 to 66 Hz, within maximum peak current for each range









Frequency [Hz]

Operating temperature	0°C to 40°C (32°F to 104°F),	
and humidity range	80% RH or less (no condensation)	
Storage temperature	-10°C to 50°C (14°F to 122°F),	
and humidity range	80% RH or less (no condensation)	
Standards	Safety: EN 61010, EMC: EN 61326	
Maximum rated power	7.8 VA (continuous maximum input)	
Cable length	Sensor/junction box: 1500 mm (59.06 in.)	
	Junction box/termination unit: 150 mm (5.91 in.)	
	Power cord: 1000 mm (39.37 in.)	
Dimensions	Sensor: 155 mm (6.10 in.) W × 18 mm (0.71 in.) H ×	
	26 mm (1.02 in.) D	
	Junction box: 45 mm (1.77 in.) W × 120 mm (4.72	
	in.) H × 25 mm (0.98 in.) D	
	Termination unit: 29 mm (1.14 in.) W × 83 mm (3.27	
	in.) H × 40 mm (1.57 in.) D	
	(excluding BNC connector or protrusions)	
Weight	Approx. 370 g (13.1 oz.)	

CT6711

Product warranty period: 1 year Guaranteed accuracy period: 1 year



Rated current* (3 ranges)	30 Arms, 5 Arms, 0.5 Arms AC/DC	
Frequency band	DC to 120 MHz (-3dB)	
Diameter of measurable conductors	Max. φ 5 mm (0.20 in.) (insulated conductors)	

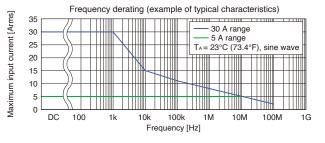
"DC or sine wave signals of 45 to 66 Hz, within maximum peak current for each range	
Rise time	2.9 ns or less (10% to 90%)
Output voltage	0.1 V/A (30 A range) 1 V/A (5 A range) 10 V/A (0.5 A range)
Maximum peak current	±50 A peak*' (30 A range) ±7.5 A peak (5 A range) ±0.75 A peak (0.5 A range, ≥ 10 MHz) ±0.3 A peak (0.5 A range, < 10 MHz)
Noise	75 μArms or less*2 (typical: 60 μArms)

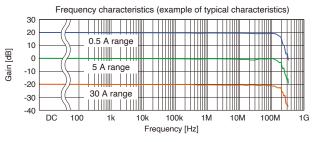
*1: Maximum 2 sec. input; requires cooling time at least 10 times longer than the time current has been input '2: Does not apply to devices to which the probe is connected; applicable in the 0.5 A range and when used with 20 MHz bandwidth instrument devices

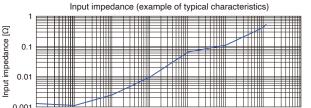
Accuracy (amplitude)

Range	Accuracy	typical
30 A	±3.0% of reading ±1 mV	$\pm 1.0\%$ of reading $\pm 1 \text{ mV} (\leq 10 \text{ A})$
5 A	±3.0% of reading ±1 mV	±1.0% of reading ±1 mV
0.5 A	±3.0% of reading ±10 mV	±1.0% of reading ±10 mV

The accuracy above is valid within the following conditions: Warm-up time: 30 minutes, operating environment of 23°C± 5°C (73°F ±9°F) at 80% RH or less, DC or sine wave signals of 45 to 66 Hz, within maximum peak current for each range







100k

1M

10M

100M

1G

10k

1k

0.001

100

Frequency [Hz]	
Operating temperature and humidity range	0°C to 40°C (32°F to 104°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-10°C to 50°C (14°F to 122°F), 80% RH or less (no condensation)
Standards	Safety: EN 61010, EMC: EN 61326
Maximum rated power	7.8 VA (continuous maximum input)
Cable length	Sensor/junction box: 1500 mm (59.06 in.) Junction box/termination unit: 150 mm (5.91 in.) Power cord: 1000 mm (39.37 in.)
Dimensions	Sensor: 155 mm (6.10 in.) W × 18 mm (0.71 in.) H × 26 mm (1.02 in.) D Junction box: 45 mm (1.77 in.) W × 120 mm (4.72 in.) H × 25 mm (0.98 in.) D Termination unit: 29 mm (1.14 in.) W × 83 mm (3.27 in.) H × 40 mm (1.57 in.) D (excluding BNC connector or protrusions)
Weight	Approx. 370 g (13.1 oz.)

CT6700

Product warranty period: 1 year Guaranteed accuracy period: 1 year



Rated current*	5 Arms
Frequency band	DC to 50 MHz (-3dB)
Diameter of measurable conductors	Max. φ 5 mm (0.20 in.) (insulated conductors)

*DC or sine wave signals of 45 to 66 Hz, within maximum peak current for each range

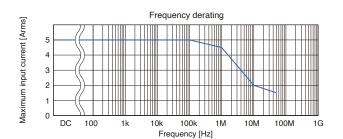
Rise time	7.0 ns or less (10% to 90%)
Output voltage	1 V/A
Maximum peak current	±7.5 A peak (non-continuous)
Noise	75 μArms or less* (typical: 60 μA rms)

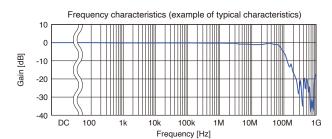
*Does not apply to devices to which the probe is connected; applicable when used with 30 MHz bandwidth instrument devices

Accuracy (amplitude)

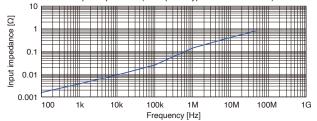
Accuracy	typical
±3.0% of reading ±1 mV	±1.0% of reading ±1 mV

The accuracy above is valid within the following conditions: Warm-up time: 30 minutes, operating environment of 23°C \pm 5°C (73°F \pm 9°F) at 80% RH or less, DC or sine wave signals of 45 to 66 Hz, 0 Arms to 5 Arms





Input impedance (example of typical characteristics)



Operating temperature and humidity range	0°C to 40°C (32°F to 104°F), 80% RH or less (no condensation)
Storage temperature and humidity range	-10°C to 50°C (14°F to 122°F), 80% RH or less (no condensation)
Standards	Safety: EN 61010, EMC: EN 61326
Maximum rated power	3.2 VA (continuous maximum input)
Cable length	Sensor cable: 1500 mm (59.06 in.) Power cord: 1000 mm (39.37 in.)
Dimensions	Sensor: 155 mm (6.10 in.) W × 18 mm (0.71 in.) H × 26 mm (1.02 in.) D Termination unit: 29 mm (1.14 in.) W × 83 mm (3.27 in.) H × 40 mm (1.57 in.) D (excluding BNC connector or protrusions)
Weight	Approx. 250 g (8.8 oz.)

CT6701

Product warranty period: 1 year Guaranteed accuracy period: 1 year



Rated current*	5 Arms
Frequency band	DC to 120 MHz (-3dB)
Diameter of measurable conductors	Max. ϕ 5 mm (0.20 in.) (insulated conductors)

*DC or sine wave signals of 45 to 66 Hz, within maximum peak current for each range

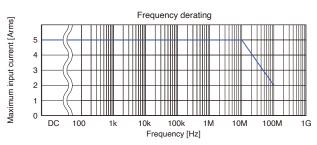
	· · · · · · · · · · · · · · ·	
Rise time	2.9 ns or less (10% to 90%)	
Output voltage	1 V/A	
Maximum peak current	±7.5 A peak (non-continuous)	
Voise 75 μArms or less* (typical: 60 μA rms)		

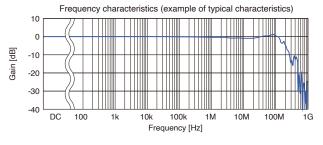
*Does not apply to devices to which the probe is connected; applicable when used with 30 MHz bandwidth instrument devices

Accuracy (amplitude)

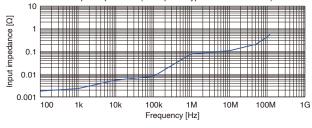
Accuracy	typical
±3.0% of reading ±1 mV	±1.0% of reading ±1 mV

The accuracy above is valid within the following conditions: Warm-up time: 30 minutes, operating environment of 23°C±5°C (73°F ±9°F) at 80% RH or less, DC or sine wave signals of 45 to 66 Hz, 0 Arms to 5 Arms





Input impedance (example of typical characteristics)



Operating temperature	0°C to 40°C (32°F to 104°F),
and humidity range	80% RH or less (no condensation)
Storage temperature	-10°C to 50°C (14°F to 122°F),
and humidity range	80% RH or less (no condensation)
Standards	Safety: EN 61010, EMC: EN 61326
Maximum rated power	3.2 VA (continuous maximum input)
Cable length	Sensor cable: 1500 mm (59.06 in.)
	Power cord: 1000 mm (39.37 in.)
Dimensions	Sensor: 155 mm (6.10 in.) W × 18 mm (0.71 in.) H ×
	26 mm (1.02 in.) D
	Termination unit: 29 mm (1.14 in.) W × 83 mm (3.27
	in.) H × 40 mm (1.57 in.) D
	(excluding BNC connector or protrusions)
Weight	Approx. 250 g (8.8 oz.)

3273-50

Product warranty period: 1 year Guaranteed accuracy period: 1 year



Rated current*	30 Arms
Frequency band	DC to 50 MHz (-3dB)
Diameter of measurable conductors	Max. φ 5 mm (0.20 in.) (insulated conductors)

*Refer to the graph for frequency derating characteristics

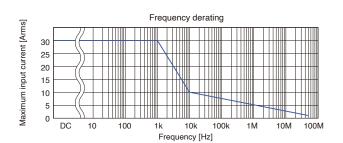
Rise time	7.0 ns or less	
Output voltage	0.1 V/A	
Maximum peak current	50 A peak (non-continuous)	
Noise	2.5 mArms or less*	

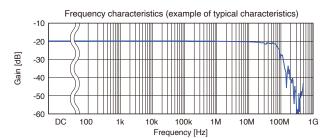
*Does not apply to devices to which the probe is connected; applicable when used with 20 MHz bandwidth instrument devices

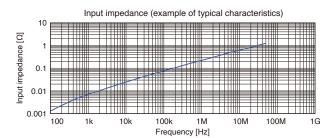
Accuracy (amplitude)

to 30 Arms	to 50 A peak
±1.0% of reading ±1 mV	±2.0% of reading

The accuracy above is valid within the following conditions: Warm-up time: 30 minutes, operating environment of 23°C± 5°C (73°F ±9°F) at 80% RH or less, DC or sine wave signals of 45 to 66 Hz, 0 Arms to 5 Arms







· · · ·		
Operating temperature	0°C to 40°C (32°F to 104°F),	
and humidity range	80% RH or less (no condensation)	
Storage temperature	-10°C to 50°C (14°F to 122°F),	
and humidity range	80% RH or less (no condensation)	
Standards	Safety: EN 61010, EMC: EN 61326	
Maximum rated power	5.6 VA	
Cable length	Sensor cable: 1500 mm (59.06 in.)	
	Power cord: 1000 mm (39.37 in.)	
Dimensions	Sensor: 175 mm (6.89 in.) W × 18 mm (0.71 in.) H ×	
	40 mm (1.57 in.) D	
	Termination unit: 27 mm (1.06 in.) W × 55 mm (2.17	
	in.) H × 18 mm (0.71 in.) D	
	(excluding BNC connector or protrusions)	
Weight	Approx. 230 g (8.1 oz)	

3276

Product warranty period: 1 year Guaranteed accuracy period: 1 year



Rated current*	30 Arms
Frequency band	DC to 100 MHz (-3dB)
Diameter of measurable conductors	Max. φ 5 mm (0.20 in.) (insulated conductors)

*Refer to the graph for frequency derating characteristics.

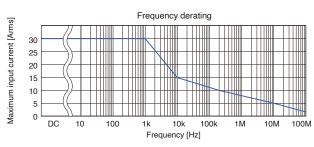
	-	
Rise time	3.5 ns or less	
Output voltage	0.1 V/A	
Maximum peak current	50 A peak (non-continuous)	
Noise 2.5 mArms or less*		
*Does not apply to devices to which the probe is connected;		

applicable when used with 20 MHz bandwidth instrument devices

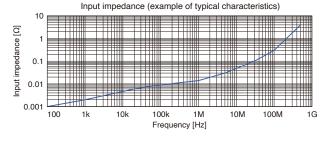
Accuracy (amplitude)

to 30 Arms	to 50 A peak
±1.0% of reading ±1 mV	±2.0% of reading

The accuracy above is valid within the following conditions: Warm-up time: 30 minutes, operating environment of 23°C± 5°C (73°F ±9°F) at 80% RH or less, DC or sine wave signals of 45 to 66 Hz, 0 Arms to 5 Arms



Frequency characteristics (example of typical characteristics) -10 -20 Gain [dB] -30 -40 -50 -60 DC 100 100k 1M 10M 100M 1G 1k 10k Frequency [Hz]



Operating temperature	0°C to 40°C (32°F to 104°F),	
and humidity range	80% RH or less (no condensation)	
Storage temperature	-10°C to 50°C (14°F to 122°F),	
and humidity range	80% RH or less (no condensation)	
Standards	Safety: EN 61010, EMC: EN 61326	
Aaximum rated power 5.3 VA		
Cable length	Sensor cable: 1500 mm (59.06 in.)	
	Power cord: 1000 mm (39.37 in.)	
Dimensions	Sensor: 175 mm (6.89 in.) W × 18 mm (0.71 in.) H ×	
	40 mm (1.57 in.) D	
	Termination unit: 27 mm (1.06 in.) W × 55 mm (2.17	
	in.) H × 18 mm (0.71 in.) D	
	(excluding BNC connector or protrusions)	
Weight	Approx. 240 g (8.5 oz)	

34

3274

Product warranty period: 1 year Guaranteed accuracy period: 1 year



Rated current*	150 Arms
Frequency band	DC to 10 MHz (-3dB)
Diameter of measurable conductors	Max. ϕ 20 mm (0.79 in)(insulated conductors)

*The accuracy above is valid within the following conditions: DC or sine wave signals of 45 to 66 Hz, within maximum peak current for each range

Rise time	35 ns or less	
Output voltage	0.01 V/A	
Maximum peak current	300 A peak (non-continuous)*1	
Noise	25 mArms or less*2	

*1: 500 Apeak with pulse width \leq 30 μ s

*2: Does not apply to devices to which the probe is connected;

when used with a 20 MHz bandwidth instrument devices

Accuracy (amplitude)

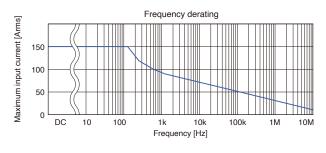
100

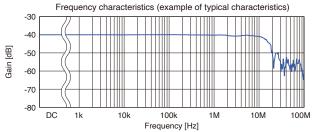
1k

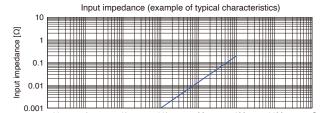
10k

to 150 A	to 300 A peak
±1.0% of reading ±1 mV	±2.0% of reading

The accuracy above is valid within the following conditions: Warm-up time: 30 minutes, operating environment of 23°C± 5°C (73°F ±9°F) at 80% RH or less, DC or sine wave signals of 45 to 66 Hz







100k

Frequency [Hz]

1M

100M

10M

1G

Operating temperature	0°C to 40°C (32°F to 104°F),	
and humidity range	80% RH or less (no condensation)	
Storage temperature	-10°C to 50°C (14°F to 122°F),	
and humidity range	80% RH or less (no condensation)	
Standards	Safety: EN 61010, EMC: EN 61326	
Maximum rated power	5.5 VA (continuous maximum input)	
Cable length	Sensor cable: 2000 mm (78.74 in.)	
	Power cord: 1000 mm (39.37 in.)	
Dimensions	Sensor: 176 mm (6.93 in.) W × 69 mm (2.72 in.) H ×	
	27 mm (1.06 in.) D	
	Termination unit: 27 mm (1.06 in.) W × 55 mm (2.17	
	in.) H × 18 mm (0.71 in.) D	
	(excluding BNC connector or protrusions)	
Weight	Approx. 500 g (17.6 oz)	

3275

Product warranty period: 1 year Guaranteed accuracy period: 1 year



Rated current*	500 Arms
Frequency band	DC to 2 MHz (-3dB)
Diameter of measurable conductors	Max. ϕ 20 mm (0.79 in)(insulated conductors)

*The accuracy above is valid within the following conditions:

DC or sine wave signals of 45 to 66 Hz, within maximum peak current for each range

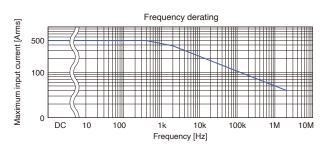
Rise time	175 ns or less
	0.01 V/A
	700 A peak (non-continuous)
	25 mArms or less*

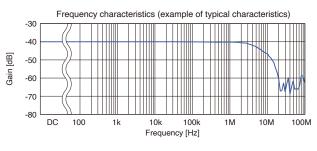
*Does not apply to devices to which the probe is connected; when used with a 20 MHz bandwidth instrument devices

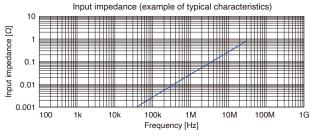
Accuracy (amplitude)

to 500 A	to 700 A peak	
±1.0% of reading ±5 mV	±2.0% of reading	

The accuracy above is valid within the following conditions: Warm-up time: 30 minutes, operating environment of 23°C± 5°C (73°F ±9°F) at 80% RH or less, DC or sine wave signals of 45 to 66 Hz







Operating temperature	0°C to 40°C (32°F to 104°F),
and humidity range	80% RH or less (no condensation)
Storage temperature	-10°C to 50°C (14°F to 122°F),
and humidity range	80% RH or less (no condensation)
Standards	Safety: EN 61010, EMC: EN 61326
Maximum rated power	7.2 VA (continuous maximum input)
Cable length	Sensor cable: 2000 mm (78.74 in.)
	Power cord: 1000 mm (39.37 in.)
Dimensions	Sensor: 176 mm (6.93 in.) W × 69 mm (2.72 in.) H ×
	27 mm (1.06 in.) D
	Termination unit: 27 mm (1.06 in.) W × 55 mm (2.17
	in.) H × 18 mm (0.71 in.) D
	(excluding BNC connector or protrusions)
Weight	Approx. 520 g (18.3 oz)

specification	35
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High-accuracy	v measurement (ME15	W)	
Pass-through	types	Rated current	Frequency range
CT6862-05		50 A	DC to 1 MHz
CT6872		50 A	DC to 10 MHz
CT6872-01		50 A	DC to 10 MHz
CT6863-05		200 A	DC to 500 kHz
CT6873		200 A	DC to 10 MHz
CT6873-01		200 A	DC to 10 MHz
CT6875A		500 A	DC to 2 MHz
CT6875A-1		500 A	DC to 1.5 MHz
CT6904A		500 A	DC to 4 MHz
CT6904A-1		500 A	DC to 2 MHz
CT6904A-2		800 A	DC to 4 MHz
CT6904A-3		800 A	DC to 2 MHz
CT6876A		1000 A	DC to 1.5 MHz
CT6876A-1		1000 A	DC to 1.2 MHz
CT6877A		2000 A	DC to 1 MHz
CT6877A-1		2000 A	DC to 1 MHz
Clamp types		Rated current	Frequency range
9272-05		20 A, 200 A	1 Hz to 100 kHz
CT6830 NEW		2 A	DC to 100 kHz
CT6831 NEW		20 A	DC to 100 kHz
CT6841A		20 A	DC to 2 MHz
CT6843A		200 A	DC to 700 kHz
CT6844A		500 A	DC to 500 kHz
CT6845A		500 A	DC to 200 kHz
CT6846A		1000 A	DC to 100 kHz
Direct-wired ty	pes	Rated current	Frequency range
PW9100A-3		50 A	DC to 3.5 MHz
PW9100A-4		50 A	DC to 3.5 MHz
Connection op	tions		
CT9555	1 ch, external power s	upply, with waveform or	utput function
CT9556	1 ch, external power s	upply, with waveform/R	MS output function
CT9557	4 ch, external power s waveform/aggregated	upply, includes wavefor RMS output functions	m/aggregated-
L9217	Isolated BNC terminal	S	
9165	Metallic BNC terminals	3	
CT9904	Used with CT9557 add	ded waveform output	
CT9901	Converts ME15W terminal to PL23 terminal		
019901			

Waveform observation (BNC)			
High-sensitivity o	bservation	Rated current	Frequency range
CT6710		0.5 A, 5 A, 30 A	DC to 50 MHz
CT6711		0.5 A, 5 A, 30 A	DC to 120 MHz
Observation of m	inuscule currents	Rated current	Frequency range
CT6700		5 A	DC to 50 MHz
CT6701		5 A	DC to 120 MHz
Observation of la	rge currents	Rated current	Frequency range
Observation of lar 3273-50	rge currents	Rated current 30 A	
	rge currents		range
3273-50	rge currents	30 A	range DC to 50 MHz
3273-50 3276	rge currents	30 A 30 A	range DC to 50 MHz DC to 100 MHz
3273-50 3276 3274		30 A 30 A 150 A	range DC to 50 MHz DC to 100 MHz DC to 10 MHz
3273-50 3276 3274 3275		30 A 30 A 150 A 500 A	range DC to 50 MHz DC to 100 MHz DC to 10 MHz

Grid power quality control (PL14)			
Measuremer	nt of load current	Rated current	Frequency range
CT7812 NEW		2 A	DC to 100 kHz
CT7822 NEW	V	20 A	DC to 100 kHz
CT7126		60 A	40 Hz to 2 kHz
CT7131		100 A	40 Hz to 2 kHz
CT7731		100 A	DC to 5 kHz
CT7631		100 A	DC to 10 kHz
CT7736		600 A	DC to 5 kHz
CT7636		600 A	DC to 10 kHz
CT7136		600 A	40 Hz to 5 kHz
CT7742		2000 A	DC to 5 kHz
CT7642		2000 A	DC to 10 kHz
Measuremer	nt of large currents	Rated current	Frequency range
CT7044		6000 A	10 Hz to 50 kHz
CT7045		6000 A	10 Hz to 50 kHz
CT7046		6000 A	10 Hz to 50 kHz
Measuremer	nt of leakage current	Rated current	Frequency range
CT7116		6 A	40 Hz to 5 kHz
Connection	options		
CT9920	Converts PL14 termir	nal to ME15W terminal	
L9095	Connects CM7290, C	M7291 and instrument	
L0220-01 Extends a cable with a PL14 terminal, 2 m (6.56		56 ft)	

L9095	Connects CM7290, CM7291 and instrument
L0220-01	Extends a cable with a PL14 terminal, 2 m (6.56 ft.)
L0220-02	Extends a cable with a PL14 terminal, 5 m (16.40 ft.)
L0220-03	Extends a cable with a PL14 terminal, 10 m (32.81 ft.)
L0220-04	Extends a cable with a PL14 terminal, 20 m (65.62 ft.)
L0220-05	Extends a cable with a PL14 terminal, 30 m (98.43 ft.)
L0220-06	Extends a cable with a PL14 terminal, 50 m (164.04 ft.)
L0220-07	Extends a cable with a PL14 terminal, 100 m (328.08 ft.)

Measurement of load current	Rated current	Frequency range
9694	5 A	40 Hz to 5 kHz
9695-02	50 A	40 Hz to 5 kHz
9660	100 A	40 Hz to 5 kHz
9695-03	100 A	40 Hz to 5 kHz
9010-50	10 A - 500 A*1	40 Hz to 1 kHz
9018-50	10 A - 500 A*1	40 Hz to 3 kHz
9132-50	20 A - 1000 A*2	40 Hz to 1 kHz
CT6500	500 A	40 Hz to 1 kHz
9661	500 A	40 Hz to 5 kHz
9669	1000 A	40 Hz to 5 kHz
Measurement of large currents	Rated current	Frequency range
CT9667-01	500 A, 5000 A	10 Hz to 20 kHz
CT9667-02	500 A, 5000 A	10 Hz to 20 kHz
CT9667-03	500 A, 5000 A	10 Hz to 20 kHz
Measurement of leakage current	Rated current	Frequency range
Measurement of leakage current 9657-10	Rated current	
° °		range
9657-10	10 A	range 40 Hz to 5 kHz
9657-10 9675	10 A	range 40 Hz to 5 kHz 40 Hz to 5 kHz
9657-10 9675 Connection options	10 A 10 A	range 40 Hz to 5 kHz 40 Hz to 5 kHz al to BNC terminal

*1: Can switch between ranges (10, 20, 50, 100, 200, 500 A AC) *2: Can switch between ranges (20, 50, 100, 200, 500, 1000 A AC)



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