Operating environment	Indoor use, pollution degree 2, altitude up to 2000 m (6562 ft.)
Operating temperature and humidity range	-40°C to 85°C (-40°F to 185°F) 80% RH or less (non-condensing)
Storage temperature and humidity range	-40°C to 85°C (-40°F to 185°F) 80% RH or less (non-condensing)
Standards	Safety: EN 61010 EMC: EN 61326
Withstand voltage	7.4 kV AC (sensed current: 1 mA) 50 Hz/60 Hz for 1 minute, between through window and cable output terminal
Power supply	Supplied from PW8001, PW6001, PW3390, CT9555, CT9556, CT9557, U8977 or external DC power supply Rated supply voltage: ±11.5 V to ±15 V (Tracking) Maximum rated current: ±450 mA (1000 A/55 Hz measurement, ±12 V power supply)
Maximum rated power	7.5 VA (1000 A/55 Hz measurement, ± 12 V power supply)
Interface	Dedicated interface (ME15W)
Dimensions	Approx. $160W \times 112H \times 50D$ mm (6.30"W × 4.41"H × 1.97"D) (excluding protrusions and the cable)
Output cable length	CT6876A: Approx. 3 m CT6876A-1: Approx.10 m
Mounting hole diameter	ϕ 5.2 mm (M5 screw, recommended tightening torque: 1.5 N•m to 2.0 N•m)
Weight	CT6876A: Approx. 970 g (34.2 oz.) CT6876A-1: Approx. 1300 g (45.9 oz.)
Product warranty duration	3 years
Accessories	Mark bands ×6 Instruction Manual Operating Precautions (0990A907)
Options	CT9901 Conversion Cable CT9902 Extension Cable
Memory function	Sensor information can be read for products with memory function support. Applicable product: PW8001
Rated current	1000 A AC/DC
Measurable conductor diameter	$_{\phi}$ 36 mm or less
Maximum input current	Not exceeding derating curve shown in Figure 1 However, a current of up to ± 1800 A peak (design value) is allowable for up to 20 ms at 40°C or less.
Output voltage	2 mV/A
Maximum rated line-to-ground voltage	1000 V (Measurement category III) Anticipated transient overvoltage: 8000 V
Output resistance	50 Ω ±10 Ω
Accuracy guarantee conditions	Accuracy guarantee duration: 1 year Accuracy guarantee duration after adjustment made by Hioki: 1 year Accuracy guarantee temperature and humidity range: 0° C to 40° C (32° F to 104° F), 80° RH or less No warm-up required, sine wave inputted, connected with measuring instrument with input resistance 1 M $\Omega \pm 10^{\circ}$, line-to-ground voltage: 0 V, no external magnetic field, conductor arranged at center of window

Measurement accuracy

Frequency	Amplitude	Phase	
Frequency	±(% of reading + % of full scale)		
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)°	
10 kHz < f ≤ 50 kHz	2% + 0.05%	± (0.1 × f)°	
50 kHz < f ≤ 100 kHz	3% + 0.05%	± (0.1 × f)°	
100 kHz < f ≤ 1 MHz	$(0.03 \times f)\% + 0.05\%$	± (0.1 × f)°	
Frequency range	1.5 MHz (±3 dB Typical)	-	

 The variable f in accuracy equations is expressed in kHz. Accuracy of amplitude and phase is specified with 110% of full scale input or less and not exceeding derating curve in Figure 1. However, design values are given for DC < f < 10 Hz. 		
 Add ±0.01% of readin scale to 110% of full s For the CT6876A-01, 1 kHz < f ≤ 1 MHz. 	ng to amplitude accuracy when input is 100% of full scale. add the following values to accuracy in the range of	
Amplitude accuracy: : Frequency bandwidth Phase accuracy: ±(0.	±(0.005 × f [kHz])% of reading :: 1.2 MHz (±3 dB Typical) 015 × f [kHz])°	
Linearity error *1 *2	±5 ppm Typical (23°C)	
Offset voltage *2	±5 ppm Typical (23°C, no input)	
Amplitude error * ³	DC: $\pm 10 \text{ ppm Typical}^{*2}$ 10 Hz to 100 Hz: $\pm 0.005\%$ Typical 100 Hz to 1 kHz: $\pm 0.03\%$ Typical 1 kHz to 10 kHz: $\pm 0.2\%$ Typical 10 kHz to 100 kHz: $\pm 1\%$ Typical 100 kHz to 300 kHz: $\pm 3\%$ Typical 300 kHz to 1 MHz: $\pm 15\%$ Typical	
 *1: Measuring the outp +1000 A → 0 A→ -′ Defined as the differ the above measurer *2: Defined as a percer *3: DC error is defined AC error is defined 	ut voltage while cycling the input current (DC) from $1000 A \rightarrow 0 A \rightarrow +1000 A$ at an interval of 200 A. rence between the regression line calculated from ments and the measurement points. htage of the rated current. as (linearity error + offset voltage). as deviation from the 55 Hz measurement point.	
Output noise	300 µV rms or less (≤ 1 MHz)	
Effects of temperature	Within the range of -40°C to 0°C or 40°C to 85°C Amplitude sensitivity: ±20 ppm of reading/°C Offset voltage: ±1 ppm of full scale/°C	
Effects of magnetization	20 mA or less (input equivalent, after 1000 A DC is inputted)	
Common mode rejection ratio (CMRR)	140 dB or more (50 Hz/60 Hz) 120 dB or more (100 kHz) (Effect on output voltage / common-mode voltage)	
Effects of conductor position	DC, 50 Hz/60 Hz: ±0.01% of reading or less (input current: 100 A) 10 kHz: ±0.5% of reading or less (input current: 10 A) 100 kHz: ±3% of reading or less (input current: 10 A) When wire of outer diameter 10 mm is used	
Effects of external magnetic field	40 mA or less (input equivalent, under a magnetic field of 400 A/m DC or 400 A/m with 60 Hz)	
Effects of radiated radio-frequency electromagnetic field	0.5% of full scale or less at 10 V/m	
Effects of conducted radio-frequency electromagnetic field	0.2% of full scale or less at 10 V	

Connectable products

1. PW8001 Power Analyzer

-1. U7001 Combined accuracy

Fraguanay	Current	Power	Dhaca
Frequency	±(% of reading	+ % of range)	FlidSe
DC	0.06% + 0.058%	0.06% + 0.058%	U7001
45 Hz ≤ f ≤ 66 Hz	0.06% + 0.058%	0.06% + 0.058%	accuracy
Bands other than DC and 45 Hz ≤ f ≤ 66 Hz	U7001 accuracy + (Consider sensor rational (Consider sensor rational sensor ra	sensor accuracy ng for full scale error.)	+ sensor accuracy

• For other measurement parameters, U7001 accuracy + sensor accuracy (consider sensor rating for full scale error).

• For the 20 A range or the 40 A range, add ±0.15% of range.

· Add accuracy according to each condition in specifications of the power analyzer and sensor.

· Defined after zero adjustment has been performed.

-2. U7005 Combined accuracy

		•		
	Frequency	Current	Power	Dhace
		±(% of reading	+ % of range)	FlidSe
	DC	0.06% + 0.038%	0.06% + 0.038%	U7005
	45 Hz ≤ f ≤ 66 Hz	0.05% + 0.028%	0.05% + 0.028%	accuracy
	Bands other than DC and 45 Hz ≤ f ≤ 66 Hz	U7005 accuracy + (Consider sensor rati	sensor accuracy solar for full scale error.)	+ sensor accuracy

- For other measurement parameters, U7005 accuracy + sensor accuracy (consider sensor rating for full scale error).
- For the 20 A range or the 40 A range, add ±0.15% of range.
- · Add accuracy according to each condition in specifications of the power analyzer and sensor.
- · Defined after zero adjustment has been performed.

2. PW6001 Power Analyzer

Combined accuracy

F	Current	Power	Dhasa
Frequency	±(% of reading + % of range)		Phase
DC	0.06% + 0.038%	0.06% + 0.058%	PW6001
45 Hz \leq f \leq 66 Hz	0.06% + 0.028%	0.06% + 0.038%	accuracy
Bands other than DC and 45 Hz ≤ f ≤ 66 Hz	PW6001 accuracy (Consider sensor ratin	+ sensor accuracy ng for full scale error.)	+ sensor accuracy

• For other measurement parameters, PW6001 accuracy + sensor accuracy (consider sensor rating for full scale error).

- For the 20 A range or the 40 A range, add ±0.15% of range.
- · Add accuracy according to each condition in specifications of the power analyzer and sensor.
- Defined after zero adjustment has been performed.

3. PW3390 Power Analyzer

Combined accuracy

Executency	Current	Power	Dhase
Frequency	±(% of reading + % of range)		Phase
DC	0.09% + 0.078%	0.09% + 0.078%	PW3390
45 Hz ≤ f ≤ 66 Hz	0.08% + 0.058%	0.08% + 0.058%	accuracy
Bands other than DC and 45 Hz ≤ f ≤ 66 Hz	PW3390 accuracy (Consider sensor rati	+ sensor accuracy ng for full scale error.)	+ sensor accuracy

• For other measurement parameters. PW3390 accuracy + sensor accuracy (consider sensor rating for full scale error).

• For the 20 A range or the 40 A range, add ±0.15% of range.

· Add accuracy according to each condition in specifications of the power analyzer and sensor.

• Defined after zero adjustment has been performed.

4. CT9555, CT9556, CT9557 Sensor Unit

Combined accuracy

- · Sensor accuracy is applicable (with output coaxial cable of length 1.6 m or less).
- · Add sensor unit accuracy when RMS output or total output is used. · Add accuracy according to each condition in specifications of the
- products to be connected and sensor.

5. U8977 3CH Current Unit

- Combined accuracy
- (U8977 accuracy) + (sensor accuracy)
- · Add accuracy according to each condition in specifications of Memory HiCorder to be connected and sensor.
- Defined after zero adjustment has been performed.

6. Other connectable products

Connecting CT9901 Conversion Cable enables the device to be used in combination with the following products:

Combined accuracy and conditions
(Combined accuracy) = Sensor accuracy
With output coaxial cable of length 1.6 m or less
Recognized as [AC/DC 500 A]. Set CT ratio to [2]. (Combined accuracy) = (3390 (-10) accuracy) + (sensor accuracy), (power factor: 1)
Defined after zero adjustment has been performed.
When installed in 3193-10, recognized as [AC/DC 500 A] Set CT ratio to [2].
(Combined accuracy) = (9602 accuracy) + (sensor accuracy) + (±0.1% of reading); (power factor: 1)
Defined after zero adjustment has been performed.
Recognized as [AC/DC 500 A]. Set CT ratio to [50]. (Combined accuracy) = (3334-10 accuracy) + (sensor accuracy); (power factor: 1) Defined after zero adjustment has been performed



Figure 1. Frequency Derating Curve



Characteristics





CMRR (Typical)





