



- Parallel operation expands the load capacity  
Up to 5 units can be operated in parallel  
Max. 5kW, 50Arms
- Supports single-phase 3-wire method,  
3-phase 3-wire method  
Equipped with tracking operation function

For load test for various  
inverters such as inverter for  
Fuel Cell power generation,  
UPS inverter, inverter for  
photovoltaic generation, and  
transformer



## AC ELECTRONIC LOAD PCZ1000A

- Maximum input load power: 1000W
- Input voltage range: 14V to 280V(rms)
- Input current range: 0 to 10A(rms)
- Input frequency range: 45 to 65Hz

**Constant Current/Constant Resistance/Constant Power mode provided.**

**Useful Crest Factor function is equipped.**

PCZ1000A is an AC electronic load that enables you to perform load simulation for various inverters and transformers.

In addition to the resistive loads generally used in tests, it is capable of simulating capacitor-input rectifier loads.

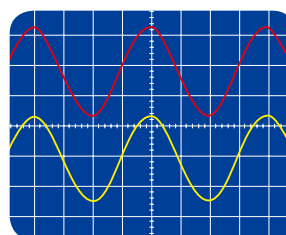
The instrument supports input up to 1000W and is equipped with 3 operation modes - Constant Current, Constant Resistance, and Constant Power.

Current waveform resemble to sine wave can be output constantly without effect by voltage waveform at each mode. Moreover, the instrument is equipped with Crest Factor function that is suitable for simulating current load test for switching power supply.

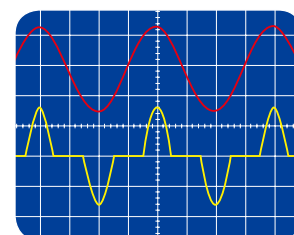
This instrument provides improved operability through CPU control and enables external control and read-back via RS-232C.

### Crest Factor Function [1.4 to 4.0]

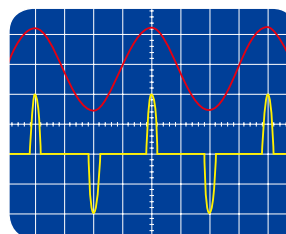
Facilitating load tests for peak or harmonic currents helps reduce design and labor time and cost as well as improve the quality of the unit under test [— Voltage waveform — Current waveform]



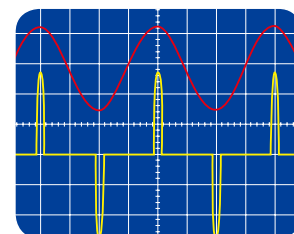
▲ C.F. setting value1.4



▲ C.F. setting value2.0



▲ C.F. setting value3.0



▲ C.F. setting value4.0

Input Rating (AC)	Operating Voltage*1		14 to 280Vrms 20 to 400Vpeak	*1	Input voltage range in which rated input current can flow	
	Maximum Current*2		10Arms 40Apeak	*2	For an input voltage of 100Vrms or greater, the maximum current is derated at the rated input power (1000W)	
	Maximum Power*3		1000W	*3	For an input voltage of 100Vrms or less, the maximum power is limited by the rated input current (10Arms).	
	Frequency		45 to 65Hz	*4	Minimum input voltage at which the input current starts to flow.	
	Minimum Operation Starting Voltage*4		3Vpeak	*5	The input current waveform does not change with changes in the input voltage waveform. The rms value of the input current is kept constant (response rate: approximately 1s) (Response rate: Time required to reach ±10% of the steady value (value reached 5 seconds or more after state change))	
Constant Current (C.C) mode *5	Setting Range		0 to 10Arms			
	Setting Accuracy*9		Within ± (1% of set + 0.1A)			
	Setting Resolution		10mArms			
	Stability	Line variations *10 Input voltage variations*11	Within ± 10mArms Within ± 100mArms			
Constant Resistance (C.R) mode *6	Setting Range		H range (Full current at 10V)	1 Ω to 1k Ω 1S to 1mS *20	*6	The input current waveform does not change with changes in the input voltage waveform.. This mode allows an input current (rms value) proportional to the rms value of the input voltage to flow (response rate: approximately 1s)
			L range (Full current at 100V)	10 Ω to 10k Ω 0.1S to 0.1mS *20		
			Setting Resolution	H range L range	1mS*20 0.1mS*20	*7
	Setting Accuracy	(in current terms) *9、*12	Within ± (2% of set + 0.2A)			
	Stability	Input voltage variations*13	Within ± 10%			
	Setting Range		50W to 1000W			
	Setting Accuracy *9、14		Within ± 5% of set			
Constant Power (C.P) mode *7	Setting Resolution		1W			
	Input voltage variations*15		Within ± 5%			
Crest Factor (C.F)function *8	Setting Range		1.4 to 4.0			
	Resolution		0.1			
Master-slave parallel operation	Up to 5 units including master unit					
Tracking function	Same current as master unit passes to slave unit					
Ammeter (RMS display mode)	Number of display digits (full scale)		10.00Arms			
	Accuracy*9		Within ± 1% of FS			
Ammeter (PEAK display mode)	Number of display digits (full scale)		40.0Apeak			
	Accuracy*9		Within ± 2% of FS			
Voltmeter	Number of display digits (full scale)		300.0Vrms			
	Accuracy*9		Within ± 1% of FS			
Protection function	Peak Overcurrent protection (POCP) *16		Approx.48Apeak			
	Overcurrent protection (OCP) *17		Approx.11.5Arms			
	Overvoltage protection (OVP) *16		Approx.470Vpeak			
	Overpower protection (OPP) *17		Approx.1150W			
	Overheat protection (OHP) *18		—			
Input Power (AC)	Internal power element protection (FUSE BRK)		Cut off internal fuse			
	Voltage range (nominal value) *19	1	90 to 110 (100) Vrms			
		2	108 to 132 (120) Vrms			
		3	180 to 220 (200) Vrms			
		4	216 to 250 (240) Vrms			
	Frequency		50 / 60Hz			
Power consumption (Apparent power)		MAX220VA				
Withstanding voltage	Primary — Chassis		1500Vac、1 minute			
	Primary — Load input terminal		1500Vac、1 minute			
	Load input terminal — Chassis		500Vac、1 minute			
Insulation resistances	Primary — Chassis		DC1000V、20M Ω and over			
	Primary — Load input terminal		DC1000V、20M Ω and over			
	Load input terminal — Chassis		DC1000V、20M Ω and over			
Temperature and humidity range	Operating temperature range		0 to 40℃			
	Operating humidity range		20 to 85% rh (no condensation)			
	Storage temperature range		— 25 to 70℃			
	Storage humidity range		90% RH or less (no condensation)			
Dimensions(Chassis)	430W × 400D × 128Hmm					
Weight	Approx.22kg					

Options

■Rack mount bracket

KRB3 (Inch size,EIA standard compatible rack)

KRB150 (Metric size, JIS standard compatible rack)

■Parallel operation cable

PC01 PCZ1000A

- Rack mount bracket
  - KRB3 (Inch size, EIA standard compatible rack)
  - KRB150 (Metric size, JIS standard compatible rack)
- Parallel operation cable
  - PC01 PCZ1000A

