

capacity

Parallel operation expands the load

3-phase 3-wire method

Up to 5 units can be operated in parallel

Supports single-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

Philips.



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

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.

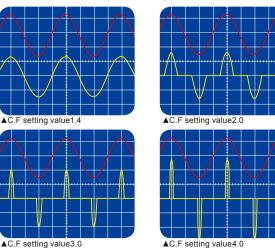
The instrument supports input up to 1000 W and is equipped with 3 operation modes - Constant Current, Constant Resistance, and Constant Power.

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 operationality through CPU control and enables external control and read-back via RS232C.

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]



Specifications

Operation voltage *1		20 Vpeak to 400 Vpeak
1		
Maximum current *2		10 Arms
		40 Apeak
Maximum power *3		1000 W
Frequency		45 Hz to 65 Hz
		3 Vpeak
Setting range		0 Arms to 10 Arms
		Within ± (1 % of set + 0.1 A)
		10 mArms
Stability		Within 10 mArms
		Within 100 mArms
Temperature coeffici	ient (at the rated current)	200 ppm/°C(typical)
Setting range	H range (Full current at 10 V)	1 Ω to 1 kΩ
		1 S to 1 mS *10
	L range (Full current at 100 V)	10 Ω to 10 kΩ
		0.1 S to 0.1 mS *10
Setting resolution	H range (Full current at 10 V)	1 mS *10
	L range (Full current at 100 V)	0.1 mS *10
Setting accuracy	(in current terms) *6, *11	Within ± (2 % of set + 0.2 A)
Stability	Input-voltage variations *12	Within ± 10 %
Setting range		50 W to 1000 W
Setting accuracy *6, *14		Within ± 5 % of set
Setting resolution		1 W
Input-voltage variations *15		Within ± 5 %
		1.4 to 4.0
Resolution		0.1
	ng master unit	1.
		10.00 Arms
		Within ± 1 % of FS
		40.0 Apeak
		Within ± 2 % of FS
		300.0 Vrms
		Within ± 1 % of FS
		Approx. 48 Apeak
· · · · · · · · · · · · · · · · · · ·		Approx. 11.5 Arms
- · ·		Approx. 470 Vpeak
<u> </u>		Approx. 1150 W
		-
Internal circuit protect	ction(FUSE BRK)	Internal fuse blown
Voltage range (nominal value) *21	1	90 Vrms to 110 (100) Vrms
	2	108 Vrms to 132 (120) Vrms
	3	180 Vrms to 220 (200) Vrms
	4	216 Vrms to 250 (240) Vrms
Frequency		50 Hz/60 Hz
Power consumption (apparent power)		MAX 220 VA
Primary side to case		1500 Vac for 1 minute
Primary side to load input terminals		1500 Vac for 1 minute
Load input terminals to case		500 Vac for 1 minute
		1000 Vdc at 20 MΩ or more
		1000 Vdc at 20 M Ω or more
· · · · · · · · · · · · · · · · · · ·		1000 Vdc at 20 MΩ or more
		0 °C to 40 °C (32 °F to 104 °F)
		20 %rh to 85 %rh (no condensation)
		-25 °C to 70 °C (-13 °F to 158 °F) 90 %rh and below (no condensation)
430VV×400D×128Hn	nm Ib)	
	Frequency Minimum operation s Setting range Setting accuracy *6 Setting resolution Stability Temperature coeffici Setting resolution Setting accuracy Stability Setting accuracy Stability Setting accuracy *6, Setting range Setting range Resolution Input-voltage variatic Setting range Resolution Up to 5 units includir Same current as mar Number of display di Accuracy *6 Number of display di Accuracy *6 Number of display di Accuracy *6 Peak overcurrent protectio Overoltage protectio Overneat protection Internal circuit protect Overcheat protection Internal circuit protect Voltage range (nominal value) *21 Frequency Power consumption Primary side to load Load input terminals Operating temperature Storage humidity rar	Frequency Minimum operation start voltage *4 Setting range Setting resolution Stability Line variations *7 Input-voltage variations *8 Temperature coefficient (at the rated current) Setting range H range (Full current at 10 V) Setting resolution H range (Full current at 10 V) Setting resolution H range (Full current at 10 V) Setting accuracy (in current terms) *6, *11 Stability Input-voltage variations *12 Setting range Setting range (Full current at 100 V) Setting accuracy (in current terms) *6, *11 Stability Input-voltage variations *12 Setting range Setting range Resolution Input-voltage variations *15 Setting range Resolution Up to 5 units including master unit Same current as master unit passes to slave unit Number of display digits (full scale) Accuracy *6 Number of display digits (full scale) Accuracy *6 Number of display digits (full scale) Accuracy *6 Overcurrent protection (OCP) *18 Overower protection (OCP) *18 Overower protection (OPP) Querheat protection (OPP)

- Input-voltage range in which the rated input current can flow. For an input voltage of 100 Vrms or greater, the maximum
- current is derated to the rated input power (1000 W).) *3 For an input voltage of 100 Vrms or less, the maximum
- power is limited by the rated input current (10 Arms). *4 Minimum input voltage at which the input current starts to
- flow. *5 The input-current waveform does not change with changes
- 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 1 s).(Response rate: Time required to reach ±10% of the steady value (value reached 5 seconds or more after state change))
- *6 At temperature(23 ± 5 °C)
- *7 Changes in the input current when variations in the ratedvoltage range are given at an input voltage of 100 Vrms and an input current of 10 Arms, based on the nominal value of the input line voltage.
- *8 Changes in the input current when the input voltage is changed from 10 Vrms to 280 Vrms at an input current of 3.57 Arms (rating at an input voltage of 280 Vrms).
- *9 The input-current waveform does not change with changes in the input-voltage waveform. This mode results in an input current (RMS value) that is proportional to the RMS value of the input voltage (response rate: approximately 1 s).
- *10 S represents the unit of conductance (siemens). Conductance [S] = 1/resistance value [Ω] Conductance [S] × input voltage [V] = load current [A]
- 11 At an input voltage of 100 Vrms.
- *12 Changes in the resistance value when the input voltage is varied from 10 Vrms to 100 Vrms at an input current of 0.5 A or more.
- *13 The input-current waveform does not change with changes in the input-voltage waveform. This mode results in an input current (RMS value) that is inversely proportional to the RMS value of the input voltage (response rate: approximately 1 s).
 *14 At an input voltage of 100 Vrms
- *15 Changes in the power value when the input voltage is varied from 10 Vrms to 100 Vrms.
- *16. Varies the angular width of the current at the approximate input-voltage peak, based on a sinusoidal current waveform.
 *17 Turns off the LOAD key when the protection function is
- activated. *18 Turns off the LOAD key within 20 ms.
- *19 Turns off the LOAD key within 3 ms.
- *20 Detects the internal-heat-sink surface temperature to turn off the LOAD key.
- *21 Selectable by Switch position

Options

Distributor:

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

PC01-PCZ1000A

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