

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,

For load test for various inverters such as inverter for Fuel Cell power generation, **UPS inverter, inverter for** Equipped with tracking operation function photovoltaic generation, and transformer

AC ELECTRONIC LOAD 571000

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.

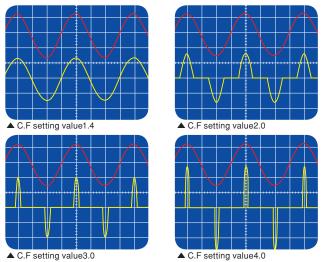
The instrument supports input up to 1000W and is equipped with 3 operation modes - Constant Current, Constant Resistance, and Constant Power.

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 operationality 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]



Specifications

			14 to 280Vrms	1 Input voltage range in which rated input current can flow	
Input Rating (AC)	Operating Voltage*1		20 to 400Vpeak	*2 For an input voltage of 100Vrms or greater, the maximum current	
			10Arms		
	Maximum Current*2		40Apeak	is derated at the rated input power (1000W)	
(10)	Maximum Power*3		1000W	*3 For an input voltage of 100Vrms or less, the maximum power is	
	Frequency		45 to 65Hz	limited by the rated input current (10Arms).	
	Minimum Operation Starting Voltage*4		3Vpeak	*4 Minimum input voltage at which the input current starts to flow.	
	Setting Range		0 to 10Arms	*5 The input current waveform does not change with changes in the	
Constant Current (C.C) mode *5	Setting Accuracy*9		Within \pm (1% of set $+$ 0.1A)	input voltage waveform.	
	Setting Resolution		10mArms	The rms value of the input current is kept constant (response	
	Stability	Line variations *10	Within ± 10mArms	rate: approximately 1s)	
		Input voltage variations*11	Within \pm 100mArms	(Response rate: Time required to reach \pm 10% of the steady	
	Temperature Coefficient (at rated current)		200PPM ∕ °C (typical)	value (value reached 5 seconds or more after state change))	
	·	H range	1 Ω to 1k Ω	*6 The input current waveform does not change with changes in the	
	Setting Range	(Full current at 10V)	1S to 1mS *20	input voltage waveform	
		L range	10 Ω to 10k Ω	This mode allows an input current (rms value) proportional	
Constant Resistance (C.R) mode			0.1S to 0.1mS *20	to the rms value of the input voltage to flow (response rate:	
*6		(Full current at 100V)	1mS*20	approximately 1s)	
0	Setting Resolution	H range	0.1mS*20	 The input current waveform does not change with changes in the 	
		L range (in current terms) *9, *12	Within \pm (2% of set + 0.2A)	input voltage waveform.	
	Setting Accuracy Stability	Input voltage variations*13	Within $\pm 10\%$	This mode allows an input current (rms value) inversely	
	Stability Setting Range	Impar voltage valiations 13	50W to 1000W	proportional to the rms value of the input voltage to flow	
Constant Power (C.P) mode	Setting Accuracy *9、14		Within \pm 5% of set		
*7	Setting Resolution		1W	(response rate: approximately 1s).	
	Input voltage variations*15		Within $\pm 5\%$	*8 Varies the angular width of the current at the approximate input	
Crest Factor (C.F)function	Setting Range		1.4 to 4.0	voltage peak, based on the sinusoidal current waveform.	
	Resolution		0.1	Y9 At room temperature (23±5℃)	
*8 Maatar alaya parallal aparatian	Up to 5 units includ	ing maatar unit	0.1	*10 Changes in the input current when variations in the rated voltage	
Master-slave parallel operation Tracking function		aster unit passes to slave uni	+	range are given at an inplut voltage of 100Vrms and an input	
Ammeter		1	10.00Arms	current of 10Arms, based on the nominal value of the input line	
(RMS display mode)	Number of display digits (full scale)		Within \pm 1% of FS	voltage.	
Ammeter	Accuracy*9		40.0Apeak	*11 Changes in the input current when the input voltage is changed	
	Number of display digits (full scale) Accuracy*9		Within $\pm 2\%$ of FS	from 10Vrms to 280Vrms at an input current of 3.57Arms (rating	
(PEAK display mode) Voltmeter	Number of display digits (full scale)		300.0Vrms	at an input voltage of 280Vrms)	
	Accuracy*9		Within \pm 1% of FS	*12 At an input voltage 100Vrms	
	Peak Overcurrent protection (POCP) *16		Approx.48Apeak	*13 Changes in the resistance value when the input voltage is varied	
	Overcurrent protection (OCP) *17		Approx.11.5Arms	from 10Vrms to 100Vrms at an input current of 0.5A or more.	
	Overvoltage protection (OVP) *16		Approx.470Vpeak	*14 At an input voltage of 100Vrms	
Protection function	Overpower protection (OPP) *17		Approx.1150W	*15 Changes in the power value when the input voltage is varied	
	Overheat protection (OHP) *18			from 10Vrms to 100Vrms	
	Internal power element protection (FUSE BRK)		Cut off internal fuse	*16 Turns off [LOAD] KEY within 20ms	
		1	90 to 110 (100) Vrms	*17 Turns off [LOAD] KEY within 3s	
	Voltage range	2	108 to 132 (120) Vrms	*18 Detects the internal heat sink surface temperature to turn off the	
	(nominal value)	3	180 to 220 (200) Vrms	[LOAD] key	
Input Power (AC)	*19	4	216 to 250 (240) Vrms	*19 Switching	
	Frequency		50 / 60Hz	*20 S represents unit of conductance (siemens)	
	Power consumption (Apparent power)		MAX220VA	$ Conductance[S] = 1 / Resistance value [\Omega] $	
Withstanding voltage	Primary – Chassis		1500Vac、1 minute		
	Primary — Load input terminal		1500Vac、1 minute	Conductance[S] × Input voltage[V]=Load current[A]	
	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	1	
T	Operating temperature range		0 to 40℃	Options	
	Operating humidity range		20 to 85% rh (no condensation)	■Rack mount bracket	
Temperature and humidity range	Storage temperature range		— 25 to 70℃	KRB3 (Inch size, EIA standard compatible rack)	
	Storage humidity range		90% RH or less (no condensation)	KRB150 (Metric size, JIS standard compatible rack)	
Dimensions(Chassis)	430W × 400D × 12	•		Parallel operation cable	
	Approx.22kg			PC01 PCZ1000A	

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	is derated at the rated input power (1000W)
*3	For an input voltage of 100Vrms or less, the maximum power is
	limited by the rated input current (10Arms).
*4	Minimum input voltage at which the input current starts to flow.
*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 $\pm 10\%$ of the steady
	value (value reached 5 seconds or more after state change))
*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)
*7	The input current waveform does not change with changes in the
	input voltage waveform.
	This mode allows an input current (rms value) inversely
	proportional to the rms value of the input voltage to flow
]	(response rate: approximately 1s).
*8	Varies the angular width of the current at the approximate input
	voltage peak, based on the sinusoidal current waveform.
*9	At room temperature (23±5°C)
*10	Changes in the input current when variations in the rated voltage
	range are given at an inplut voltage of 100Vrms and an input
	current of 10Arms, based on the nominal value of the input line
	voltage.
*11	Changes in the input current when the input voltage is changed
	from 10Vrms to 280Vrms at an input current of 3.57Arms (rating
	at an input voltage of 280Vrms)
*12	At an input voltage 100Vrms
 *13	Changes in the resistance value when the input voltage is varied
	from 10Vrms to 100Vrms at an input current of 0.5A or more.
*14	At an input voltage of 100Vrms
*15	Changes in the power value when the input voltage is varied
	from 10Vrms to 100Vrms
 *16	Turns off [LOAD] KEY within 20ms
*17	Turns off [LOAD] KEY within 3s
*18	Detects the internal heat sink surface temperature to turn off the
	[LOAD] key
 *19	Switching
 *20	S represents unit of conductance (siemens)
	Conductance $[S] = 1 / Resistance value [\Omega]$
	Conductance[S] × Input voltage[V]=Load current[A]
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 On	tions



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