

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



PGZ100A

- 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.

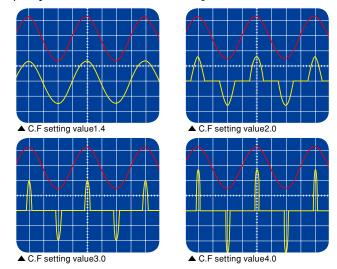
The instrument supports input up to 1000W and is equipped with 3 operation modes - Constant Current, Constant Resistance, and Constant Power.

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

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Input Rating (AC)	Operating Voltage*1		14 to 280Vrms	*1 Input voltage range in which rated input current can flow
			20 to 400Vpeak	For an input voltage of 100Vrms or greater, the maximum currer
	Maximum Current*2		10Arms	is derated at the rated input power (1000W)
			40Apeak	*3 For an input voltage of 100Vrms or less, the maximum power
	Maximum Power*3		1000W	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
Constant Current (C.C) mode	Setting Range		0 to 10Arms	input voltage waveform.
	Setting Accuracy*9 Setting Resolution		Within \pm (1% of set $+$ 0.1A)	The rms value of the input current is kept constant (response
` '	Line variations *10		10mArms Within ± 10mArms	rate: approximately 1s)
*5	Stability	Input voltage variations*11		(Response rate: Time required to reach ±10% of the steady
Constant Resistance (C.R) mode	Tomporature Coeff	nput voltage variations*11 Within ± 100mArms ent (at rated current) 200PPM ∕°C (typical)	value (value reached 5 seconds or more after state change))	
	Temperature Coem	H range	1 Ω to 1k Ω	*6 The input current waveform does not change with changes in the
	Setting Range	l. •		input voltage waveform
		(Full current at 10V)	1S to 1mS *20	This mode allows an input current (rms value) proportional to the rms value of the input voltage to flow (response rate:
		L range	10 Ω to 10k Ω	
		(Full current at 100V)	0.1S to 0.1mS *20	
	Setting Resolution	H range	1mS*20	approximately 1s)
		L range	0.1mS*20	*7 The input current waveform does not change with changes in the
	Setting Accuracy	(in current terms) *9, *12	Within \pm (2% of set $+$ 0.2A)	input voltage waveform.
	Stability	Input voltage variations*13	Within ± 10%	This mode allows an input current (rms value) inversely
Constant Power (C.P) mode	Setting Range		50W to 1000W	proportional to the rms value of the input voltage to flow
	Setting Accuracy *9、14		Within \pm 5% of set	(response rate: approximately 1s).
	Setting Resolution		1W	*8 Varies the angular width of the current at the approximate input
	Input voltage variat	ions*15	Within ± 5%	voltage peak, based on the sinusoidal current waveform.
Crest Factor (C.F)function	Setting Range		1.4 to 4.0	*9 At room temperature (23±5°C)
*8	Resolution		0.1	*10 Changes in the input current when variations in the rated voltage
Master-slave parallel operation	Up to 5 units includ	Jp to 5 units including master unit		range are given at an inplut voltage of 100Vrms and an input
Tracking function	Same current as m	Same current as master unit passes to slave unit		current of 10Arms, based on the nominal value of the input line
Ammeter	Number of display digits (full scale)		10.00Arms	voltage *11 Changes in the input current when the input voltage is changed
(RMS display mode)	Accuracy*9		Within ± 1% of FS	
Ammeter	Number of display digits (full scale)		40.0Apeak	
(PEAK display mode)	Accuracy*9		Within ± 2% of FS	from 10Vrms to 280Vrms at an input current of 3.57Arms (rating
M-11	Number of display	digits (full scale)	300.0Vrms	at an input voltage of 280Vrms)
Voltmeter	Accuracy*9		Within ± 1% of FS	*12 At an input voltage 100Vrms
Protection function	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
	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		Cut off internal fuse	*16 Turns off [LOAD] KEY within 20ms
	Voltage range	1	90 to 110 (100) Vrms	*17 Turns off [LOAD] KEY within 3s
		2	108 to 132 (120) Vrms	*18 Detects the internal heat sink surface temperature to turn off the
Input Dawer (AC)	(nominal value)	3	180 to 220 (200) Vrms	
Input Power (AC)		3 4	180 to 220 (200) Vrms 216 to 250 (240) Vrms	[LOAD] key
Input Power (AC)	(nominal value)			[LOAD] key *19 Switching
Input Power (AC)	(nominal value) *19	4	216 to 250 (240) Vrms	[LOAD] key 19 Switching 20 S represents unit of conductance (siemens)
Input Power (AC)	(nominal value) *19 Frequency	4 (Apparent power)	216 to 250 (240) Vrms 50 / 60Hz	[LOAD] key *19 Switching *20 S represents unit of conductance (siemens) Conductance [S] = 1 / Resistance value [Ω]
	(nominal value) *19 Frequency Power consumption	(Apparent power)	216 to 250 (240) Vrms 50 / 60Hz MAX220VA	[LOAD] key 19 Switching 20 S represents unit of conductance (siemens)
	(nominal value) *19 Frequency Power consumption Primary — Chassis	(Apparent power)	216 to 250 (240) Vrms 50 / 60Hz MAX220VA 1500Vac. 1 minute	[LOAD] key *19 Switching *20 S represents unit of conductance (siemens) Conductance[S]=1/Resistance value [Ω]
	(nominal value) *19 Frequency Power consumption Primary — Chassis Primary — Load inp	a (Apparent power) but terminal - Chassis	216 to 250 (240) Vrms 50 / 60Hz MAX220VA 1500Vac、1 minute 1500Vac、1 minute	[LOAD] key *19 Switching *20 S represents unit of conductance (siemens) Conductance[S]=1/Resistance value [Ω]
Withstanding voltage	(nominal value) *19 Frequency Power consumption Primary — Chassis Primary — Load inp Load input terminal	a (Apparent power) but terminal Chassis	216 to 250 (240) Vrms 50 / 60Hz MAX220VA 1500Vac、1 minute 1500Vac、1 minute	[LOAD] key *19 Switching *20 S represents unit of conductance (siemens) Conductance[S]=1/Resistance value [Ω]
Withstanding voltage	(nominal value) *19 Frequency Power consumption Primary — Chassis Primary — Load input terminal Primary — Chassis	a (Apparent power) but terminal Chassis but terminal	216 to 250 (240) Vrms 50 / 60Hz MAX220VA 1500Vac、1 minute 1500Vac、1 minute 500Vac、1 minute DC1000V、20M Ω and over	[LOAD] key *19 Switching *20 S represents unit of conductance (siemens) Conductance[S]=1/Resistance value [Ω]
Withstanding voltage	(nominal value) *19 Frequency Power consumption Primary — Chassis Primary — Load inp Load input terminal Primary — Chassis Primary — Load inp	a (Apparent power) out terminal — Chassis out terminal — Chassis	216 to 250 (240) Vrms 50 / 60Hz MAX220VA 1500Vac、1 minute 1500Vac、1 minute 500Vac、1 minute DC1000V、20M Ω and over DC1000V、20M Ω and over	[LOAD] key *19 Switching *20 S represents unit of conductance (siemens) Conductance [S] = 1 / Resistance value [Ω]
Withstanding voltage Insulation resistances	(nominal value) *19 Frequency Power consumption Primary — Chassis Primary — Load input terminal Primary — Chassis Primary — Load input terminal Load input terminal	an (Apparent power) out terminal — Chassis out terminal — Chassis ture range	216 to 250 (240) Vrms 50 / 60Hz MAX220VA 1500Vac、1 minute 1500Vac、1 minute 500Vac、1 minute DC1000V、20M Ω and over DC1000V、20M Ω and over DC1000V、20M Ω and over	[LOAD] key *19 Switching *20 S represents unit of conductance (siemens) Conductance [S]=1 / Resistance value [Ω] Conductance [S] × Input voltage [V]=Load current [A]
Withstanding voltage Insulation resistances	(nominal value) *19 Frequency Power consumption Primary — Chassis Primary — Load input terminal Primary — Chassis Primary — Load input terminal Load input terminal Operating tempera	an (Apparent power) out terminal — Chassis out terminal — Chassis ture range range	216 to 250 (240) Vrms 50 / 60Hz MAX220VA 1500Vac、1 minute 1500Vac、1 minute 500Vac、1 minute DC1000V、20M Ω and over DC1000V、20M Ω and over DC1000V、20M Ω and over 0 to 40°C	[LOAD] key *19 Switching *20 S represents unit of conductance (siemens) Conductance[S]=1/Resistance value [Ω] Conductance[S] × Input voltage[V]=Load current[A] Options
	(nominal value) *19 Frequency Power consumption Primary — Chassis Primary — Load input terminal Primary — Chassis Primary — Load input terminal Load input terminal Operating temperat Operating humidity	an (Apparent power) out terminal — Chassis out terminal — Chassis ture range range range	216 to 250 (240) Vrms 50 / 60Hz MAX220VA 1500Vac、1 minute 1500Vac、1 minute 500Vac、1 minute DC1000V、20M Ω and over DC1000V、20M Ω and over DC1000V、20M Ω and over 0 to 40°C 20 to 85% rh (no condensation)	[LOAD] key 19 Switching 20 S represents unit of conductance (siemens) Conductance [S] = 1 / Resistance value [Ω] Conductance [S] × Input voltage [V] = Load current [A] Options Rack mount bracket KRB3 (Inch size,EIA standard compatible rack)
	(nominal value) *19 Frequency Power consumption Primary — Chassis Primary — Load input terminal Primary — Chassis Primary — Load input terminal Operating temperat Operating humidity Storage temperature	an (Apparent power) but terminal — Chassis but terminal — Chassis ture range range range range range range	216 to 250 (240) Vrms 50 $/$ 60Hz MAX220VA 1500Vac、1 minute 1500Vac、1 minute 500Vac、1 minute DC1000V、20M Ω and over DC1000V、20M Ω and over DC1000V、20M Ω and over DC1000V、20M Ω and over 0 to 40 $^\circ$ C 20 to 85% rh (no condensation) - 25 to 70 $^\circ$ C	[LOAD] key 19 Switching 20 S represents unit of conductance (siemens) Conductance [S] = 1 / Resistance value [Ω] Conductance [S] × Input voltage [V] = Load current [A] Options Rack mount bracket KRB3 (Inch size,EIA standard compatible rack)



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