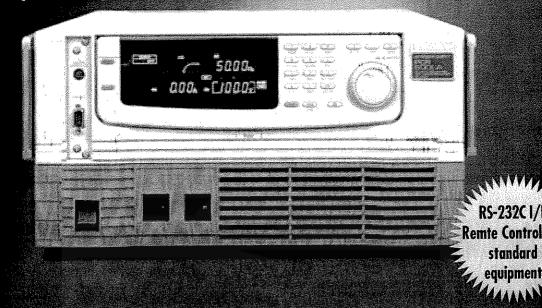
Provisional Edition

Capable of performing simulations of gover line abnormalities easily at low cost



#### **Multifunctional AC Power Supply NEW**

# PCR-LASERIES

The PCR-LA series is the most advanced, with having polished multifunctional AC power supply device of our best selling AC power supply PCR-L series. By adding new functions and options while carrying over the basic performance from former model, this series is reborn as a safe and reliable model that is much easier to use. As the PCR-LA series comes with not only the basic operating functions of the main body, but also has standard equipment of RS-232C and the dedicated remote control external interface (GPIB is optional), if you have a PC, you can use almost all of the functions of the PCR-LA series. The remote controller (RC03-PCR-LA) is available for "abnormal power line simulation functions", which is the most frequently used in power supply environment testing, it makes possible for you to perform the functions easily, and above all, at a low cost. In addition, by combining the output extension kit (0T01-PCR-LA/2, 0T01-PCR-LA/3, etc.), you can easily build a single phase/single phase three-wire out-put or single phase/three phase configuration system.

With the PCR-LA series' high-quality basic performance and abundance in flexible expandability, apply to the anticipated fields of various applications, in the field of an electric, machinery and chemicals for such power supply environmental testing, immunity testing, or power amplification of the output waveform for arbitrary waveform signal generators.

- High-quality/high-stability output with a highspeed linear amp
- Equipped with various measuring functions
- Offering also DC Outputs
- Come with The RS-232C and remote control interface are standard equipment
- Switching the configuration of single phase/ single phase three-wire out-put, single phase/ three phase easily (option)
- Compatible with external signal input, possible to operate as a power amp (option/ under development)
- Low frequency immunity test software (option/under development)



### System Upgrades

By employing the available options for the PCR-LA series, it can be developed into diverse systems.

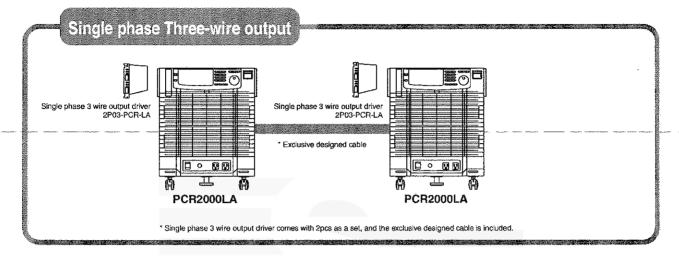
In addition to the following examples, the system can be built with a variety of combinations.

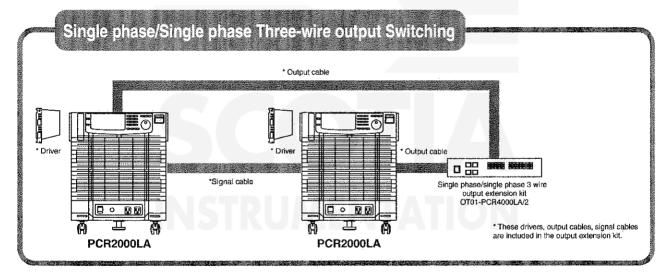
For details, please inquire at our sales department.

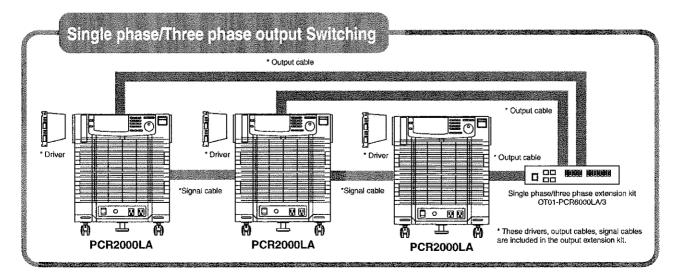
#### [NOTICE] To users of the PCR-L Series

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If you have any other questions, please contact our sales department for details.







### Specifications (Provisional Edition)

Model name			PCR500LA	PCR1000LA	PCR2000LA	PCR4000LA	PCH6000LA			
Input rating (AC rms values)										
Voltage (input voltage range of 100 V/200 V) (*1)			85 to132 V/170 to 250 V 170 to 250 V							
	hases, frequen	cy	Single phase, 47 Hz to 63 Hz							
	Apparent power			Approx. 2 kVA	Approx 4 kVA	Approx. 8 kVA	Approx. 12 kVA			
	Power factor (*2)				0.95 (typical value)					
	voltage range:		12 A/6 A or less	24.A/12 A or less	48 A/24 A or less	96 A/48 A or less	72 A or less			
A STORY OF THE STO	j, AC mode (AC									
Voltage (outp	out voltage rang	ge of 100 V/200 V) (*3)			1 to 150 V/2 to 300 V					
	Voltage setting accuracy (output voltage range of 100 V/200 V) (*16)			± (0.1% of set value + 0.1 V/0.2 V)  5 A/2.5 A						
	Maximum current (*4)			10 A/5 A	20 A/10 A	40 A/20 A	60 A/30 A			
Number of pr			500 VA		Single phase					
	Power capacity			1 kVA	2 kVA	4 kVA	6 kVA			
	ak current (*5)			Four time	s the maximum current (	rms value)				
Power factor	of load			0 to 1 (le	ading phase or lagging p	hase) (*4)				
Frequency					1 Hz to 999.9 Hz (*4, *6	)				
Output rating	DC mode									
Voltage (outp	out voltage rang	je of 100 V/200 V) (*3)			1.4 to 212 V/2.8 to 424 \	/				
Voltage settin	ng accuracy (or	ulput voltage range of 100 V/200 V) (*17)		± (0.0	0.05 value + 0.05 v	/0.1 V}				
Maximum cui	rrent (*4)		2.5 A/1.25 A	5 A/2.5 A	10 A/5 A	20 A/10 A	30 A/15 A			
Maximum ins	stantaneous cu	rrent (*18)		Four time	s the maximum current (	rms value)				
Power capaci	ity		250 W	500 W	1 kW	2 kW	3 kW			
Output voltag	Output voltage stability									
Line voltage	variation (with	respect to changes in the rated range)			Within ± 0.1%					
Output curren	Output current variation (with respect to 0% to 100% changes in rating)		Within ± 0.1 V/ ± 0.2 V (output voltage range of 100 V/200 V) (*7)							
Output freque	ency AC	mode (in the range of 40 Hz to 999.9 Hz)	Within ± 0.3% (*8)							
variation	AC-	6 mode (in the range of 40 Hz to 999.9 Hz)	Within ± 1% (*8)							
Ripple noise:	DC mode (5H	z to 1MHz components)	0.1 V rms or less	0.15 V rms or less	0.2 V rms or less	0.3 V rms or less	0.4 V rms or less			
Ambient-tempe	erature variation	(with respect to changes in the rated range)		100	0 ppm/ °C (typical value)	(*9)				
Output freque	ency setting ac	curacy and stability, waveform distortion ra	ite, response rate, and e	fficiency						
Output freque	ency stability (v	vith respect to changes in all rated ranges)		Within ± 5 x 10-5, Fi	requency setting accurac	:y:Within ± 1 x 10⁴				
Output voltag	Output voltage waveform distortion ratio (*10)			0.3 % or less						
Output voltag	Output voltage response rate (*11)			30 us (typical value)						
Efficiency (*2	2)				50 % or more					
Indicators (va	acuum fluoresc	ent display (VFD) indication)								
Voltmeter	Resolution	RMS display mode	± 0,1V							
(*12, *14)		PEAK and AVE display mode	0.2 V (0 to ± 212 V) / 0.3 V (± 212 to ± 424 V)							
	Accuracy	RMS and AVE display mode	Within ± (1% of rdg + 2 digits) (in the range of 10 V to 424 V at room temperature)							
		PEAK display mode	With	$\sin \pm (2\% \text{ of rdg} + 2 \text{ digit}$	s) (in the range of 10 V to	o 424 V at room tempe	rature)			
Ammeter	Resolution	RMS display mode	0.01 A	0.01 A	0.01 A	0.1 A	0.1 A			
(*12, *14)		PEAK and AVE display mode	0.02 A	0.02 A	0.02 A	0.2 A	0.2 A			
	Accuracy	RMS and AVE display mode	Within ± (1% of rdg + 2 digits)							
	İ	(in the range of 5% of the rated maximum current to the rated maximum current at room temperatur								
			Within ± (2% of rdg + 4 digits)							
		PEAK display mode				(in the range of 5% of the rated maximum current to the rated maximum peak current at room temperature) (*19)				
			(in the range of 5%	of the rated maximum c	urrent to the rated maxin	num peak current at ro	om temperature) (*19)			
Power meter	(*15)	PEAK display mode  Resolution	(in the range of 5%	of the rated maximum c	urrent to the rated maxin 0.1 W/1 W	num peak current at ro	om temperature) (*19)			
Power meter	(*15)		(in the range of 5%				om temperature) (*19)			
		Resolution		, w	0.1 W/1 W	its)				
Power meter		Resolution		, w	0.1 W/1 W ithin ± (1% of rdg + 3 dig	its)				
Frequencyme	eter (*13)	Resolution Accuracy	(in the range of 10% of	W the rated power capacity	0.1 W/1 W ithin ± (1% of rdg + 3 dig to the rated power capacity	its)				
Frequencyme	eter (*13) sistance, withst	Resolution Accuracy Resolution	(in the range of 10% of	W the rated power capacity	0.1 W/1 W  ithin ± (1% of rdg + 3 dig to the rated power capacity  0.01 Hz/0.1 Hz	its)	and at room temperature)			
Frequencyme insulation resi	eter (*13) sistance, withst stance (input to c	Resolution Accuracy Resolution and voltage, circuit method, operating ami	(in the range of 10% of	W the rated power capacity	0.1 W/1 W  ithin ± (1% of rdg + 3 dig to the rated power capacity  0.01 Hz/0.1 Hz	its) (, load power factor of 1,	and at room temperature)			
Frequencyme insulation resi	eter (*13) sistance, withst stance (input to cu tage (input to cu	Resolution Accuracy  Resolution and voltage, circuit method, operating ami	(in the range of 10% of	W the rated power capacity	0.1 W/1 W ithin ± (1% of rdg + 3 dig to the rated power capacity 0.01 Hz/0.1 Hz	its) η load power factor of 1, I MΩ or more at 500 V	and at room temperature)			
Frequencyme Insulation resi Insulation resis Withstand volt Circuit metho Operating am	eter (*13) Sistance, withst stance (input to cu tage (input to cu od nbient tempera	Resolution Accuracy  Resolution and voltage, circuit method, operating amitubicie, output to cubicle, and input to output) bicle, output to cubicle, and input to output)	(in the range of 10% of	W the rated power capacity  by ore at 500 V DC	0.1 W/1 W ithin ± (1% of rdg + 3 dig to the rated power capacity 0.01 Hz/0.1 Hz  10 1.5 kV AC for 1 minute	its) r, load power factor of 1, DMΩ or more at 500 V	and at room temperature)			
Frequencyme Insulation resi Insulation resis Withstand volt Circuit metho Operating am	eter (*13) Sistance, withst stance (input to cu tage (input to cu	Resolution Accuracy  Resolution and voltage, circuit method, operating amitubicie, output to cubicle, and input to output) bicle, output to cubicle, and input to output)	(in the range of 10% of	W the rated power capacity  by ore at 500 V DC	0.1 W/1 W ithin ± (1% of rdg + 3 dig to the rated power capacity 0.01 Hz/0.1 Hz  10 1.5 kV AC for 1 minute Linear amplifier system	its) r, load power factor of 1, DMΩ or more at 500 V	and at room temperature)			
Frequencyme finsulation resi Insulation resis Withstand volt Circuit metho Operating am	eter (*13) Sistance, withst stance (input to cu tage (input to cu od nbient tempera	Resolution Accuracy  Resolution and voltage, circuit method, operating amitabicia, output to cubicle, and input to output) bicle, output to cubicle, and input to output) ure/humidity	(in the range of 10% of	W the rated power capacity  by ore at 500 V DC	0.1 W/1 W ithin ± (1% of rdg + 3 dig to the rated power capacity 0.01 Hz/0.1 Hz  10 1.5 kV AC for 1 minute Linear amplifier system	its) r, load power factor of 1, DMΩ or more at 500 V	and at room temperature)			

- \*1 An input voltage range of 100 V/200 V can be selected using a switch.
- For the output voltage range of 100 V/200 V, the output current rating, a load power factor of 1, and an output
- frequency of 40 Hz to 999.9 Hz

  An output voltage range of 100 V/200 V can be selected using a switch on the front panel. Resolution; 0.1 V.
- For output voltage of 1 V to 100 V/2 V to 200 V and a load power factor of 0.8 to 1 (AC/AC-S mode) When the output voltage is 100 V to 150 V/200 V to 300 V (AC/AC-S mode) or 100 V to 212 V/200 V to 424 V (DC mode), the output current is reduced based on the output voltage.

  When the load power factor is 0 to 0.8, the output current is reduced based on the load power factor (AC/AS-
  - S mode). When the output frequency is 1 Hz to 40 Hz, the output current is reduced based on the output frequency (AC/
- ACS mode). With respect to a capacitor input-type rectifier load (Note that the peak current is limited based on the rms
- value of the rated output current.) Resolution: 1) 0.01 Hz (1.00 Hz to 100.0 Hz); 2) 0.1 Hz (100.0 Hz to 999.9 Hz)
- For output voltage of 80 V to 150 V/160 V to 300 V and a load power factor of 1. The specified value is obtained at the output terminal board.
- \*8 For output voltage of 80 V to 150 V/160 V to 300 V and a load power factor of 1. The specified range is output voltage variations measured with 200 Hz as a reference.
- '9 For output voltage range of 100 V/200 V and an output current of 0 A '10 For output voltage of 80 V to 150 V/160 V to 300 V and a load power factor of 1
- \*11 With respect to changes from an output current of 0 A to the rating and vice versa when the output voltage range is 100 V/200 V and the load power factor is 1
- 112 With the display of a frue ms value and waveform having a crest factor of 3 or less
  113 Displays the output frequency set value (frequency of the internal reference voltage)
- \*14 At an output frequency of 40 Hz to 999.9 Hz \*15 At an output frequency of 45 Hz to 65 Hz
- \*16 At an output frequency of 45 Hz to 65 Hz, with no load, and at room temperature \*17 With no load and at room temperature

- \*18 Limited by the rms value of the rated output current
  \*19 Rated maximum current in an output voltage range of 100 V

		PCR500LA	PCR1000LA	PCR2000LA	PCR4000LA	PCR6000LA	
rminal board connecting screws and	accessories						
Input terminal board connecting screws  Output terminal board connecting screws			M6				
Input power cable	Shape	Exclusive designed cable	Three-core heavy PVC jackeled cable	site Single core cable, 3			
(sectional conductor area/length)	Wire diameter	2 mm <sup>2</sup> /3 m with a threepronged plug	5.5 mm²/3 m	8 mm²/3 π	22 mm²/3 m	22 mm²/3 m	
Cable clamper		-	1 set				
Cable-clamper fixing screws		-	M3, 1 pc. / M4, 2 pcs.	M4, 2 pcs. / M3, 4 pcs.	M3, 2 pc	s. / M4, 2 pcs.	
Operation Manual		1 copy					
Weight seal		1 sheet					
t	poard connecting screws I board connecting screws Input power cable (sectional conductor area/length) Cable clamper Cable-clamper fixing screws Operation Manual	board connecting screws  Input power cable Shape (sectional conductor area/length) Wire diameter Cable clamper Cable-clamper fixing screws Operation Manual	minal board connecting screws and accessories poard connecting screws (Inlet)  I board connecting screws M4  Input power cable Shape Exclusive designed cable (sectional conductor area/length) Wire diameter 2 mm <sup>2</sup> /3 m with a thresprosped plug  Cable clamper  Cable-clamper fixing screws  Operation Manual	minal board connecting screws and accessories  poard connecting screws    Input power cable   Shape   Exclusive designed cable   Three-cre leavy PVC jacketed cable	minal board connecting screws and accessories    Mat	minal board connecting screws and accessories           poard connecting screws         (Inlet)         M6           Iboard connecting screws         M4         M6           Input power cable         Shape         Exclusive designed cable         Three-core loavy PVC (actived designed cable)         Single core cable, 5           (sectional conductor area/length)         Wire diameter         2 mm²/3 m w/b a threeproaged plug         5.5 mm²/3 m         8 mm²/3 m         22 mm²/3 m           Cable clamper         -         1 set         1 set           Cable-clamper fixing screws         -         M3, 1 pc. / M4, 2 pcs. / M3, 4 pcs.         M3, 2 pc           Operation Manual         1 copy         1 copy         1 copy	











#### Option

■ Remote Controller

RC03-PCR-LA(Limited in functions)

RC04-PCR-LA\*(Full-functional)



RC03-PCR-LA

■ Interface
IB03-PCR-LA (for GPIB)
EX03-PCR-LA\* (for external signal input).

#### Driver

PD03M-PCR-LA (for Master unit operated in parallel) PD03S-PCR-LA (for Slave unit operated in parallel) 3P03-PCR-LA (for Three-phase output) 2P03-PCR-LA(for Single-phase three-wire output) ■ Output extension kit\*\* (Single-phase/single-phase three-wire switching)

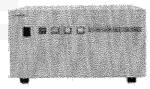
OT01-PCR4000LA/2\*(4kVA) OT01-PCR8000LA/2\*(8kVA) OT01-PCR12000LA/2\*(12kVA)



OT01-PCR4000LA/2

■ Output extension kit\*\* (Single-phase/three-phase switching)

OT01-PCR6000LA/3\*(6kVA) OT01-PCR12000LA/3\*(12kVA) OT01-PCR18000LA/3\*(18kVA)



OT01-PCR18000LA/3

\*Be available soon.

"'Output extension kit includes to attach software driver, signal cable and output cable respectively

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### INSTRUMENTATION

## Internet http://www.kikusui.co.jp/



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planning of future system.

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