



Advanced Test Equipment Rentals

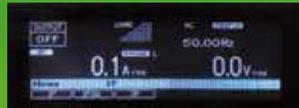
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**Output single-phase, single-phase 3-wire,*
Convenient multiple output supports a wide
AC power supply offering superior space factor**

High-performance AC Power Supplies **PCR-LE2 SERIES**



The PCR-LE2 Series are designed based on the PCR-LE Series that supports single-phase output, single-phase 3-wire output, and three-phase output within the rated capacity by selecting the switch from the front panel operation. The PCR-LE2 series offer the same basic performance, using the common power unit of the PCR-LE Series, with providing easier installation and saving the space more efficiently compare to the individual allocation of the system for a single-phase, single-phase 3-wire, and three-phase systems. The lineup of PCR-LE2 Series are available in 3 models: 6 kVA, 9 kVA, and 27 kVA model.



Single-phase output display screen



Single-phase 3-wire output display screen



Three phase output display screen



PCR6000LE2

PCR9000LE2

PCR27000LE2

and three-phase power with a single unit. range of industrial devices. and cost performance.

*: The Output power with single-phase 3-wire limits 2/3 of the rated output.

● Lineup

Model		PCR6000LE2	PCR9000LE2	PCR27000LE2
Output capacity	Single-phase	6 kVA	9 kVA	27 kVA
	Single phase 3-wire	4 kVA	6 kVA	18 kVA
	three phase	6 kVA	9 kVA	27 kVA
Maximum output current	Single-phase	60 A / 30 A	90 A / 45 A	270 A / 135 A
	Single phase 3-wire: three phase	20 A / 10 A	30 A / 15 A	90 A / 45 A
		1 V to 150 V / 2 V to 300 V		
ACmode (L/H range)	Single-phase	60 A / 30 A	90 A / 45 A	270 A / 135 A
	Single phase 3-wire: three phase	20 A / 10A	30 A / 15 A	90 A / 45 A
		1.4 V to 212 V / 2.8 V to 424 V		
DC mode (L/H range)	Single-phase	42 A / 21 A	63 A / 31.5 A	189 A / 94.5 A
	Single phase 3-wire: three phase	14 A / 7A	21 A / 10.5 A	63 A / 31.5 A
Dimensions (mm(inches)) (Maximum dimensions)		430(440) W	430(440) W	1490(1580) W *
		944(1040) H	1325(1420) H	1425 H *
		550(595) D	550(595) D	835 D *
Weight		Approx. 140 kg (308.64 lbs)	Approx. 190 kg (418.88 lbs)	Approx. 700 kg (1543.24 lbs)

*OP03-KRC included.

● Rearpanel

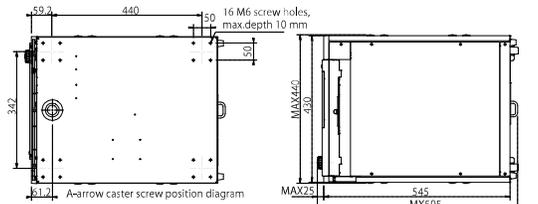


PCR6000LE2

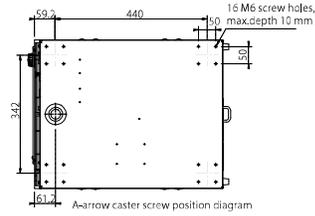
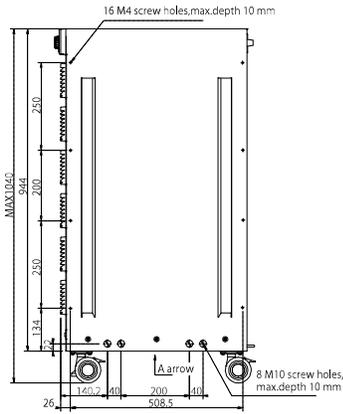
PCR9000LE2

PCR27000LE2

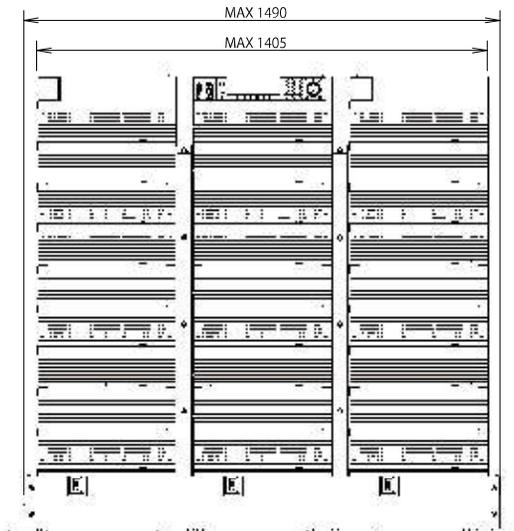
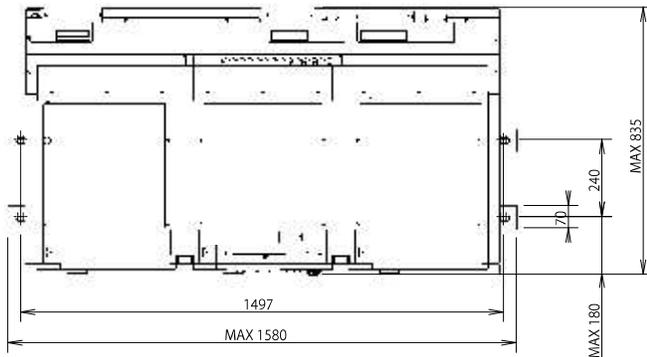
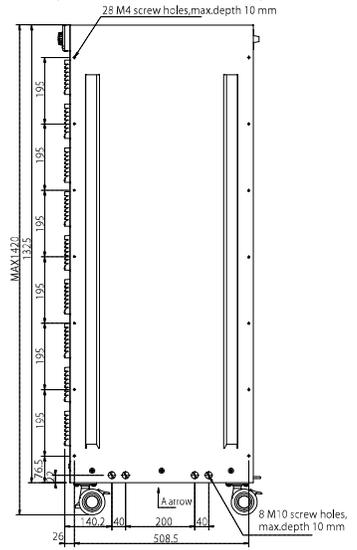
dimensions



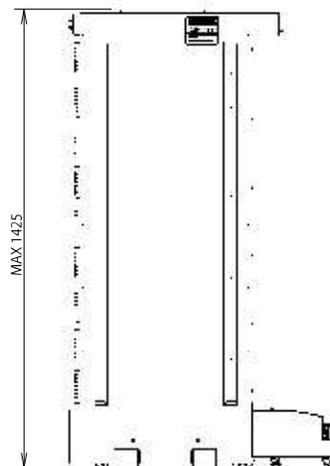
PCR6000LE2



PCR9000LE2



PCR27000LE2



● Concerning installation of the PCR27000LE2

The PCR27000LE2 requires for the installation work. Please consult with your local Kikusui distributor.

● Concerning relocation of the PCR27000LE2

The PCR27000LE2 cannot be relocated after it is installed. If relocation becomes necessary, please consult with your local Kikusui distributor.

specifications

Item/Model	PCR6000LE2		PCR9000LE2		PCR27000LE2	
Input ratings (AC rms)			3P3W 200V	3P3W 200V	3P4W 400V	3P3W 200V
Voltage	Line voltage 170V to 250V		Phase voltage 187 V to 254 V (Line voltage 324 V to 440 V)		Line voltage 170 V to 250 V	Line voltage 170 V to 250 V
Phases	Single phase	Three phase 3-wire	Three phase 3-wire		Three phase 4-wire	Three phase 3-wire
Frequency	47 Hz to 63 Hz					
Apparent power	Approx. 10.6 kVA	Approx. 10.6 kVA	Approx. 15.7 kVA	Approx. 15.7 kVA	Approx. 48 kVA	
Power factor*1	0.97 (TYP)					
Max. current	64 A or less	38 A or less	55 A or less	30 A or less	165 A or less	
AC mode output ratings (AC rms)						
Voltage (output L range, output H range)*2	1 V to 150 V, 2 V to 300 V					
Voltage setting accuracy (output L range, output H range)*3	±(0.3% of set + 0.6 V)					
Max. current*4	Single phase, poly phase, L range, H range	60 A, 30 A · 20 A, 10 A	60 A, 30 A · 20 A, 10 A	90 A, 45 A · 30 A, 15 A	90 A, 45 A · 30 A, 15 A	270 A, 135 A · 90 A, 45 A
Phase*5	Single phase · Single phase 3-wire · Three phase 4-wire					
Power capacity	Single phase, Three-phase 4-wire, Single phase 3-wire	6 kVA · 4 kVA	6 kVA · 4 kVA	9 kVA · 6 kVA	9 kVA · 6 kVA	27 kVA · 18 kVA
Maximum peak current*6	Max. current (rms) × 4 (TYP)					
Max. reverse current*7	30 % of the max. current (rms)					
Load power factor*4	0 to 1 (leading or lagging)					
Frequency*4 *8	1 Hz to 999.9 Hz ★					
DC mode output ratings (for Single-phase and Single-phase Three-wire output only)						
Voltage (output L range, output H range)*2	1.4 V to 212 V / 2.8 V to 424 V					
Voltage setting accuracy (output L range, output H range)*9	±(0.05 % of set + 0.05 V / 0.1 V)					
Max. current*4	Single phase, poly phase, L range, H range	42 A, 21 A · 14 A, 7 A	42 A, 21 A · 14 A, 7 A	63 A, 31.5 A · 21 A, 10.5 A	63 A, 31.5 A · 21 A, 10.5 A	189 A, 94.5 A · 63 A, 31.5 A
Max. instantaneous current*10	Max. current (rms) × 3.6					
Power capacity	Single phase, Single phase 3-wire	4.2 kW · 2.8 kW	4.2 kW · 2.8 kW	6.3 kW · 4.2 kW	6.3 kW · 4.2 kW	18.9 kW · 12.6 kW
Output voltage stability						
Line regulation(With respect to changes in the rated range)	Within ±0.1 %					
Line regulation(With respect to 0 % to 100 % changes in the rating)*11	±0.3 V					
Output frequency variation in AC mode(Between 40 Hz and 999.9 Hz)*12	Within ±0.5 %					
Ripple noise in DC mode(5 Hz to 1 MHz components)	0.25 Vrms or less					
Ambient temperature variation(With respect to changes in the rated range)*13	100 ppm / °C (TYP)					
Output frequency stability, output voltage waveform distortion ratio, output voltage response speed, efficiency						
Output frequency stability(With respect to changes in all rated ranges)	Within ±5×10 ⁻⁵ , Setting accuracy : Within ±1×10 ⁻⁴					
Output voltage waveform distortion ratio*14	0.3 % or less					
Output voltage response speed*15	30 μs (TYP)					
Efficiency*1	58 % or more					
Phase difference of the output phase voltage*16	Single phase 3-wire Three-phase 4-wire	Within 180° · 120°± (0.4° + 5 μs) *17 Within 180° · 120°± (0.4° + f0×1.8×10 ⁻³⁰)				
Meters (fluorescent display)						
Voltmeter *18 *19	Resolution Accuracy	RMS,AVE Display mode RMS,AVE Display mode	0.1 V Within ±(1 % of rdng + 2 digits) (10 V to 848 V and at room temperature)			
Ammeter *18 *19	Resolution Accuracy	RMS,AVE Display mode Single phase · Poly phase RMS Display mode	0.1 A · 0.01 A	0.1 A · 0.01 A	0.1 A	0.1 A / 1 A · 0.1 A
Wattmeter*19	Resolution Accuracy	Single phase · Poly phase	1 W · 0.1 W / 1 W	1 W · 0.1 W / 1 W	1 W	1 W / 10 W
Frequency meter*20	Resolution		Within ±(1 % of reading + 3digits) (10 % of the rated power capacity to the rated power capacity, when the load power factor is 1, and at room temperature.) 0.01 Hz / 0.1 Hz			
General						
Insulation resistance	Between input and chassis, output and chassis, and input and output		500 V, 10 MΩ or more			
Withstand voltage			1.5 kVAC for 1 minute			
Circuit method			Linear amplifier system			
Environmental conditions	Operating temperature range / Storage temperature range		0 °C to +50 °C / -10 °C to +60 °C			
	Operating humidity range / Storage humidity range		20 % rh to 80 % rh (no condensation) / 90 % rh or less (no condensation)			
Weight			Approx.140 kg(308.64 lbs)	Approx.140 kg(308.64 lbs)	Approx.190 kg(418.88 lbs)	Approx.700 kg(1543.24 lbs)
Input terminal	Input terminal board [3 φ]	M8	M5	M5	M5	M8
Output terminal	Output terminal board Single phase · Single phase 3-wire, Three-phase 4-wire	M8 · M5				M8 · M8
Input power cord [Sold separately option]	Shape	single-core cable				—
	The number	3 pc	4 pc	4 pc	5 pc	—
	Conductor cross section/Length	14 mm ² / 3 m	14 mm ² / 3 m	14 mm ² / 3 m	14 mm ² / 3 m	—
Accessories	Setup guide	1 copy				
	CD-ROM(User's manual)	1 disc				
	Quick Reference	1 each for English and Japanese				
	Safety information	1 copy				
Other	Electromagnetic compatibility (EMC)	EMC Directive 2004/108/EC, EN61326-1, EN61000-3-2, 3-3				The maximum length of all cables and wires connected to the PCR-LE Series must be less than 3 m.
	Safety	Low Voltage Directive 2006/95/EC, EN61010-1 Class 1				Pollution Degree2
	Output voltage ratio versus rated output current characteristics					PCR-LE series just like.(See P. 23.)

*1 When the output phase voltage is 100 V or 200 V, the output current is the rated value, the load power factor is 1, and the output frequency is between 40 Hz and 999.9 Hz.
 *2 L/H range can be changed by means of a switch on the front panel. Resolution: 0.1 V
 *3 When the output frequency is between 45 Hz and 65 Hz, with no load, and at room temperature.
 *4 When the maximum voltage is between 1 V and 100 V (L range) or 2 V and 200 V (H range) and the load power factor is between 0.8 and 1. When the output phase voltage is between 100 V and 150 V or 200 V and 300 V (AC mode) or 100 V and 212 V or 200 V and 424 V (DC mode), the output current is reduced by the output phase voltage.
 When the load power factor is between 0 and 0.8, the output current is reduced by the load power factor. (AC mode)
 When the output frequency is between 1 Hz and 40 Hz, the output current is reduced by the output frequency. (AC mode)
 *5 The output phase mode can be changed by means of a key on the operation panel. "Poly" in the table indicates single-phase three-wire mode and three-phase four-wire mode.
 *6 When the output phase voltage is in the vicinity of the peak (±15 deg) (However, this is limited by the rated output current's rms value).
 *7 When the output phase voltage is 100 V or 200 V and the output frequency is between 40 Hz and 999.9 Hz (reverse current is -180 deg out of phase with the output voltage).
 *8 Resolution: 0.01 Hz (1.00 Hz ~ 100.0 Hz), 0.1 Hz (100.0 Hz ~ 999.9 Hz)
 *9 With no load at room temperature
 *10 Limited by the rated output current's rms value
 *11 When the output phase voltage is between 80 V and 150 V (L range) or 160 V and 300 V (H range) and the load power factor is 1. At the output terminal block. When the response mode is set to MEDIUM. (There is no F mode)
 *12 When the output phase voltage is between 80 V and 150 V (L range) or 160 V and 300 V (H range) and the load power factor is 1. This is the output line regulation with 200 Hz as the reference. When the response mode is set to MEDIUM. (There is no F mode)

*13 When the output phase voltage is 100 V or 200 V and the output current is 0 A.
 *14 When the output phase voltage is between 80 V and 150 V (L range) or 160 V and 300 V (H range) and the load power factor is 1. When the response mode is set to MEDIUM. (There is no F mode)
 *15 When the output phase voltage is 100 V or 200 V, the load power factor is 1, and the output current changes from 0 A to the rated value and from the rated value to 0 A.
 *16 Phase difference between output voltages (phase voltages) when each phase is considered along with the neutral point.
 *17 The following show the angles obtained by calculating the expression with the specified frequency.
 Within ±0.5° (when generating 60 Hz output)
 Within ±1.2° (when generating 400 Hz output)
 *18 With the true rms display, a waveform with a crest factor of 3 or less.
 *19 When the output frequency is between 45 Hz and 65 Hz.
 *20 Displays the output frequency setting (frequency of the internal reference voltage)

★ PCR-LE2 Series 500Hz Limit Model
 The PCR-LE Series offers the type on each model that limits the maximum output frequency up to 500 Hz.

ordering information

Part	Model	Remarks	
High-performance AC Power Supplies (Single phase)	PCR500LE	Single phase 500VA	
	PCR1000LE	Single phase 1kVA	
	PCR2000LE	Single phase 2kVA	
	PCR3000LE	Single phase 3kVA	
	PCR4000LE	Single phase 4kVA	
	PCR6000LE	Single phase 6kVA	
	PCR9000LE	Single phase 9kVA	
High-performance AC Power Supplies (Single phase/Single phase three wire/Three-phase change types)	PCR6000LE2	Single phase / Three-phase 6kVA, Single phase three wire 4kVA	
	PCR9000LE2	Single phase / Three-phase 9kVA, Single phase three wire 6kVA	
	PCR27000LE2	Single phase / Three-phase 27kVA, Single phase three wire 18kVA	
GPIB interface	IB05-PCR-LE		
USB interface	US05-PCR-LE		
LAN interface	LN05-PCR-LE		
Analog interface	EX05-PCR-LE	An amplifier type	
	EX06-PCR-LE	Amplitude control type	
Input power cable	For PCR1000LE	AC5.5-3P3M-M4C	3-core catbrite cables 5.5 mm ² /3 m M4
	For PCR2000LE	AC8-1P3M-M5C-3S	3 single-core cables 8 mm ² /3 m M5
	For PCR3000/6000LE/6000LE2	AC14-1P3M-M8C-3S	3 single-core cables 14 mm ² /3 m M8
	For PCR4000LE	AC22-1P3M-M8C-3S	3 single-core cables 22 mm ² /3 m M8
	For PCR6000LE,LE2 (Three-phase 200V input) /PCR9000LE,LE2	AC14-1P3M-M5C-4S	4 single-core cables 14 mm ² /3 m M5
	For PCR9000LE (400V input)	AC5.5-1P3M-M5C-5S	5 single-core cables 5.5 mm ² /3 m M5
Extension cable for control panel	EC05-PCR	2m	
Parallel operation driver (Master)	PD05M-PCR-LE	Cannot be used with PCR500LE or PCR1000LE.	
Parallel operation driver (Slave)	PD05S-PCR-LE	Cannot be used with PCR500LE or PCR1000LE.	
Single-phase three-wire output driver	2P05-PCR-LE		
Three-phase output driver	3P05-PCR-LE		
	3P05-PCR-LE (500Hz LMT)	Overseas export	
Extension cable	CC01-PCR-LE	For 2P05 · 3P05 1.5 m	
	CC02-PCR-LE	For 2P05 · 3P05 2.8 m	
Extension connection cable (For parallel operation)	PC01-PCR-LE	1.3 m	
Extension power signal cable (For parallel operation)	CC11-PCR-LE	1 m	
Power-sync cable	LC01-PCR-LE	1 m	
Rack mount Brakets	For PCR500LE	KRB4	For EIA inch size
		KRB200	For JIS metric size
	For PCR1000LE	KRB6	For EIA inch size
		KRB300	For JIS metric size
	For PCR2000LE	KRB9	For EIA inch size
		KRB400-PCR-LE	For JIS metric size
Base holding angle	OP03-KRC	For fixing PCR3000LE/4000LE/6000LE/9000LE/6000LE2/9000LE2 and fixing to the floor Standard accessories for the PCR27000LE2	
Dip simulator	DSI Series		
Line impedance network	LIN Series		
Quick Immunity Sequencer 2	SD009-PCR-LE		
Software for creating sequences	SD011-PCR-LE (Wavy for PCR-LE)		



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