New Flagship

Ultra-Compact AC/DC Programmable Power Supply

PCR-WE/WE2 Series

Compact size: 6 kVA in 6U size (PCR6000WE2)
Up to 36 kVA in one single unit
100% Regenerative Capability
Mix-and-match parallel operation up to 144 kVA
Flexible Digital Interface: LAN (LXI), USB, RS232C, GPIB (factory option)
Power Line Disturbance Simulation
Power-saving function
DC output (100% of rated power)
Output Frequency up to 5 kHz
Output Rating: AC 0 to 310 Vrms, DC 0 to ±438 V

HIGH POWER, DOWNSIZED

6 kVA in a 6U frame and up to 36 kVA in a single unit with regenerative capabilities[*1]. The next generation of high-power programmable AC power supplies.

Ultra-Compact AC/DC Programmable Power Supply

PCR-WE/WE2 Series

The PCR-WE/WE2 is a series of multifunctional switching AC power supplies that combines accurate, high-power output with an ultra-compact design. The 15 model line-up ranges from 1 kVA to 36 kVA AC/DC with single & 3 phase variable output from 6 kVA and up. The PCR-WE/WE2 also features a regenerative mode[*1] that can drastically reduce power consumption and cut operating costs.
The PCR-WE/WE2 also supports mix-and-match parallel operation[*2] up to 144 kVA for large-scale test systems.
Output frequency up to 5 kHz is also available with all models, which is critical for AC applications in avionic industries.

PCR6000WE2
PCR6000WE2R

Refer to pg.16 for full scale.

- **Compact Size: 6 kVA in 6U frame (PCR6000WE2)**
- **Up to 36 kVA in a single unit (PCR36000WE2)**
- **100% Regenerative-power capability[*1]**
- **Mix-and-match parallel operation up to 144 kVA**
- **Flexible Digital Interface:**
  LAN (LXI), USB, RS232C, GPIB (option)
- **Power line disturbance simulation features**
- **Sequence function for advanced simulation**
- **External analog, digital control function (standard)**
- **Power-saving function**
- **DC output (100% of rated power)**
- **Output Frequency up to 5 kHz**
- **Output Rating: AC 0 to 310 Vrms, DC 0 to ±438 V**

*1: Only "R" models (PCR-WE2R) with 3-phase 200 V input.
For regeneration within the installation site only.
*2: Parallel operation is available for 6 kVA models and up with a maximum of 4 units. Same model combination is not required.
Up to 48 kVA per phase.

Single-phase 1 kVA/2 kVA

PCR1000WE
PCR2000WE

Multi-type 3 kVA

PCR3000WE2

Multi-type 6 kVA

PCR6000WE2
PCR6000WE2R

Multi-type 12 kVA

PCR12000WE2
PCR12000WE2R

Multi-type 18 kVA

PCR18000WE2
PCR18000WE2R

PCR WE/WE2 SERIES
AC POWER SUPPLY

● Lineup

Specifications	AC mode output rating					DC mode output rating			Input rating (AC rms)			
Model	Phase	Power capacity	Phase voltage	Max. current *1 (L/H range)	Frequency	Power capacity	Voltage	Max. current *2 (L/H range)	Phase	Voltage (nominal)	Apparent power	Current
		VA	V	A	Hz	W	V	A		V	kVA or less	A or less
PCR1000WE	Single-phase	1 k	(The spec guaranteed voltage range) 1 to 155/ 2 to 310 (L/H output range) (Voltage setting range) 0 to 157.5/ 0 to 315.0	10/5	1 to 5000	1 k	(The spec guaranteed voltage range) ±1.4 to ±219/ ±2.8 to ±438 (L/H output range) (Voltage setting range) -222.5 to +222.5/ -445.0 to +445.0	10/5	Single-phase	100 to 120, 200 to 240	1.4	17/8.5
PCR2000WE	Single-phase	2 k		20/10		2 k		20/10	Single-phase	100 to 120, 200 to 240	2.7	32/16
PCR3000WE2	Single-phase Three-phase	3 k		30/15 10/5		3 k		30/15	Single-phase	100 to 120, 200 to 240	4	48/24
	Single-phase Three-wire	2 k										
PCR6000WE2R	Single-phase Three-phase	6 k		60/30 20/10		6 k		60/30	Three-phase Three-wire	Line voltage 200 to 240	7.8	27
PCR6000WE2	Single-phase Three-wire	4 k							Three-phase Four-wire	Line voltage 380 to 480		14
PCR12000WE2R	Single-phase Three-phase	12 k		120/60 40/20		12 k		120/60	Three-phase Three-wire	Line voltage 200 to 240	15.6	53
PCR12000WE2	Single-phase Three-wire	8 k							Three-phase Four-wire	Line voltage 380 to 480		28
PCR18000WE2R	Single-phase Three-phase	18 k		180/90 60/30		18 k		180/90	Three-phase Three-wire	Line voltage 200 to 240	23.4	80
PCR18000WE2	Single-phase Three-wire	12 k							Three-phase Four-wire	Line voltage 380 to 480		42
PCR24000WE2R	Single-phase Three-phase	24 k		240/120 80/40		24 k		240/120	Three-phase Three-wire	Line voltage 200 to 240	31.2	106
PCR24000WE2	Single-phase Three-wire	16 k							Three-phase Four-wire	Line voltage 380 to 480		56
PCR30000WE2R	Single-phase Three-phase	30 k		300/150 100/50		30 k		300/150	Three-phase Three-wire	Line voltage 200 to 240	39	133
PCR30000WE2	Single-phase Three-wire	20 k							Three-phase Four-wire	Line voltage 380 to 480		70
PCR36000WE2R	Single-phase Three-phase	36 k		360/180 120/60		36 k		360/180	Three-phase Three-wire	Line voltage 200 to 240	46.8	159
PCR36000WE2	Single-phase Three-wire	24 k							Three-phase Four-wire	Line voltage 380 to 480		84

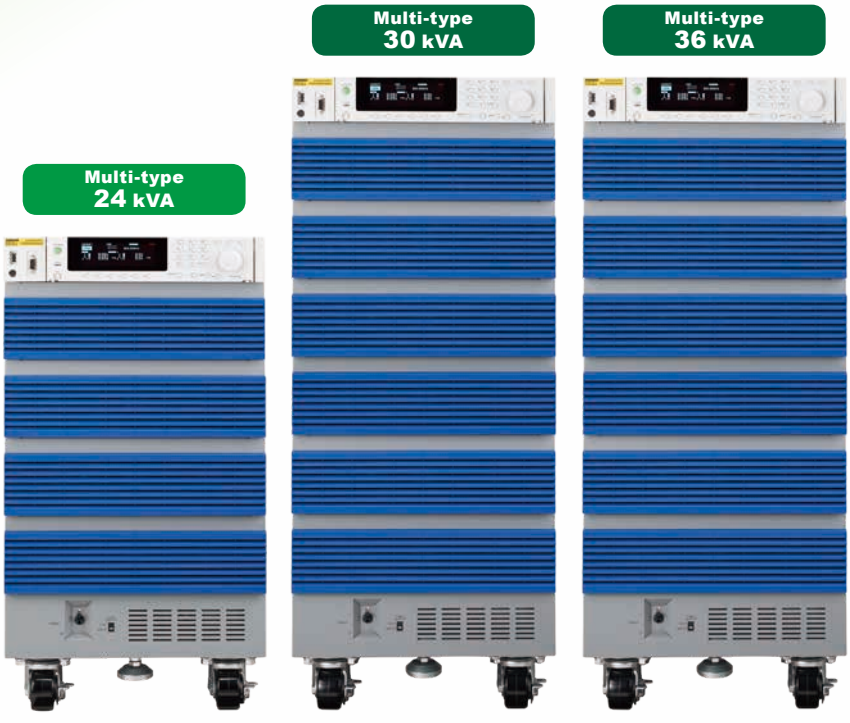
*1 When the output phase voltage is between 100 Vac and 155 Vac or 200 Vac and 310 Vac, the output current is reduced by the output voltage. When the output frequency is between 1 Hz and 40 Hz, the output current is reduced by the output frequency.
*2 When the output voltage is between 100 Vac and 219 Vac or 200 Vac and 438 Vac, the output current is reduced by the output voltage.

★ 500 Hz Limit Model is available. The PCR-WE2 Series offers a limited frequency type with a maximum output frequency of 500 Hz.

● Dimensions/Weight

Model	Dimensions(mm(inch))(Maximum size)	Weight
PCR1000WE	430(16.9")W×129.2(5.1")(150(5.9"))H×655(25.8")(710(28"))Dmm	16 kg(35.3 lb)
PCR2000WE	430(16.9")W×129.2(5.1")(150(5.9"))H×655(25.8")(710(28"))Dmm	20 kg(44.1 lb)
PCR3000WE2	430(16.9")W×129.2(5.1")(150(5.9"))H×655(25.8")(710(28"))Dmm	23 kg(50.7 lb)
PCR6000WE2R	430(16.9")W×262(10.3")(345(13.6"))H×550(21.7")(620(24.4"))Dmm	42 kg(92.6 lb)
PCR6000WE2	430(16.9")W×262(10.3")(345(13.6"))H×550(21.7")(620(24.4"))Dmm	43 kg(94.8 lb)
PCR12000WE2R	430(16.9")W×389(15.3")(475(18.7"))H×550(21.7")(620(24.4"))Dmm	66 kg(145.5 lb)
PCR12000WE2	430(16.9")W×389(15.3")(475(18.7"))H×550(21.7")(620(24.4"))Dmm	65 kg(143.3 lb)
PCR18000WE2R	430(16.9")(445(17.5"))W×690(27.2")(785(30.9"))H×550(21.7")(660(26"))Dmm	120 kg(264.6 lb)
PCR18000WE2	430(16.9")(445(17.5"))W×690(27.2")(785(30.9"))H×550(21.7")(660(26"))Dmm	120 kg(264.6 lb)

Model	Dimensions(mm(inch))(Maximum size)	Weight
PCR24000WE2R	430(16.9")(445(17.5"))W×690(27.2")(785(30.9"))H×550(21.7")(660(26"))Dmm	130 kg(286.6 lb)
PCR24000WE2	430(16.9")(445(17.5"))W×690(27.2")(785(30.9"))H×550(21.7")(660(26"))Dmm	130 kg(286.6 lb)
PCR30000WE2R	430(16.9")(445(17.5"))W×944(37.2")(1040(40.9"))H×550(21.7")(660(26"))Dmm	160 kg(352.7 lb)
PCR30000WE2	430(16.9")(445(17.5"))W×944(37.2")(1040(40.9"))H×550(21.7")(660(26"))Dmm	160 kg(352.7 lb)
PCR36000WE2R	430(16.9")(445(17.5"))W×944(37.2")(1040(40.9"))H×550(21.7")(660(26"))Dmm	180 kg(396.8 lb)
PCR36000WE2	430(16.9")(445(17.5"))W×944(37.2")(1040(40.9"))H×550(21.7")(660(26"))Dmm	170 kg(374.8 lb)



PCR24000WE2
PCR24000WE2R

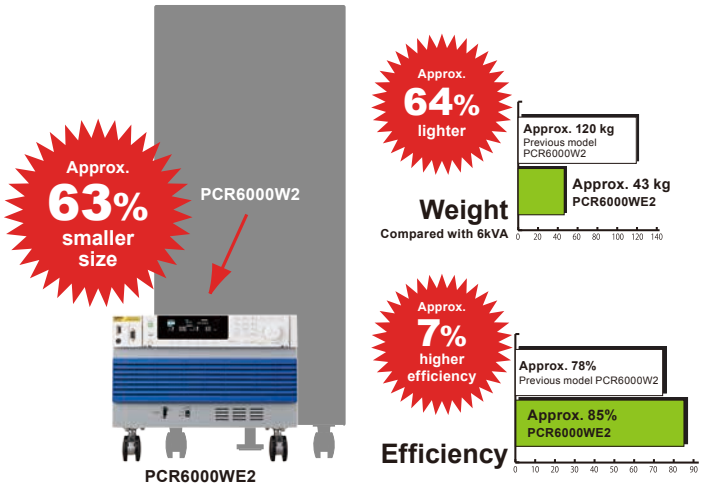
PCR30000WE2
PCR30000WE2R

PCR36000WE2
PCR36000WE2R

PWM Inverter Type - Programmable AC Power Supply
The PCR-WE/WE2 Series brings new innovations to the power-electronics industry.

Compact Size!

Compared to our previous PWM models, the size of the PCR-WE has been drastically reduced by 60%. Efficiency has also been increased by approximately 7%, for an overall high efficiency of approximately 85%.

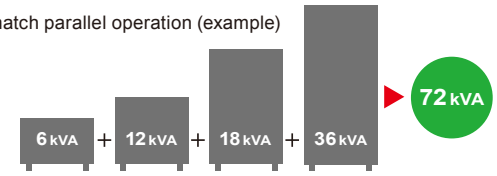


Up to 144 kVA with Parallel Operation

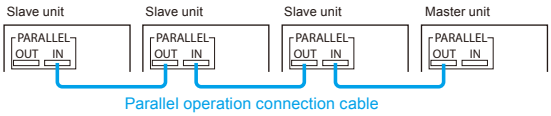
Parallel operation is available on all models by simply connecting an optional parallel operation cable. This feature is available even among different models for a wide range of high power.

*Same input voltage required for 6 kVA models and higher.

● Mix-and-match parallel operation (example)



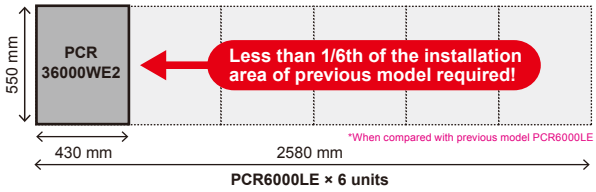
● Connection diagram



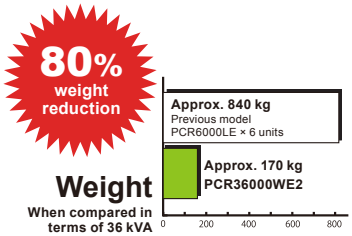
Extremely Power Dense 36 kVA Chassis

The PCR-WE/WE2 form factor has been significantly improved, occupying the absolute minimum amount of precious space in your testing facility.
The form factor is even further optimized in high powermodels.

● Installation area comparison (36 kVA)
The PCR-WE/WE2 is only 1/6th the size of the PCR-LE!



● Weight comparison (36 kVA)
The PCR-WE/WE2 is approximately 80% lighter than the PCR-LE!



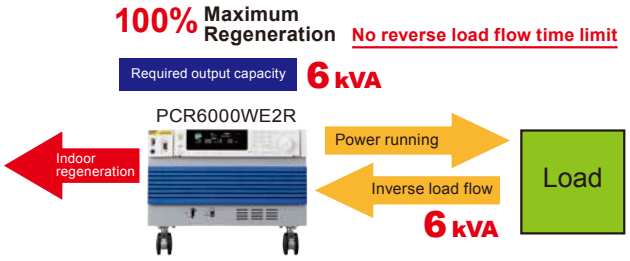
Low Ripple Noise

Achieves an extremely low switching noise for a PWM inverter-type AC power supply, with ripple noise as low as 0.25 rms with 1 kVA - 6 kVA models. The PCR-WE series even boasts similar noise performance with the PCR-LE/LE2 linear amplifier power supply series. The compact, high-power design of the PCR-WE/WE2 has been achieved with absolutely no compromises to ripple noise performance.

100% Regeneration Capability, No Time Limit

The PCR-WE2R models are capable of 100% power regeneration. The power regeneration feature is available with absolutely no reverse load flow time limit. (30% for PCR-LE/LE2)

*Regeneration is limited within installation site. Only available in "R" models (PCR-WE2R) with 3-phase 200 V input.



Output Frequency up to 5 kHz

It has a maximum output frequency up to 5 kHz for critical applications in the defense and avionics industries. The frequency performance of the PCR-WE allows for simulation of sharp voltage fluctuations required for airborne electronic equipment testing. Furthermore, the compact 6kVA/6U form factor allows for the easy preparation of an automated, one-rack testing system without requiring a costly, specialized power source installation space.

DC Output 100% of Rated Power

The PCR-WE/WE2 series enables DC output up to 100% of the AC rated power output.

DC output: 100% of AC output rating

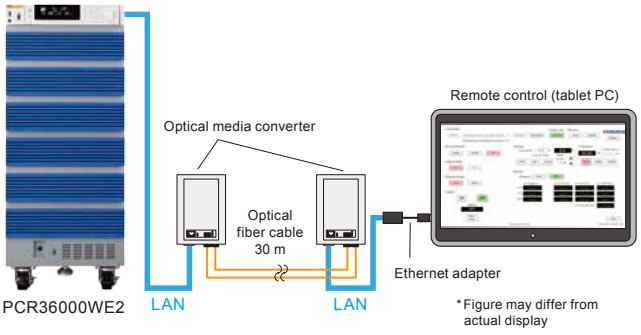
Required output capacity **6 kVA**

PCR6000WE2

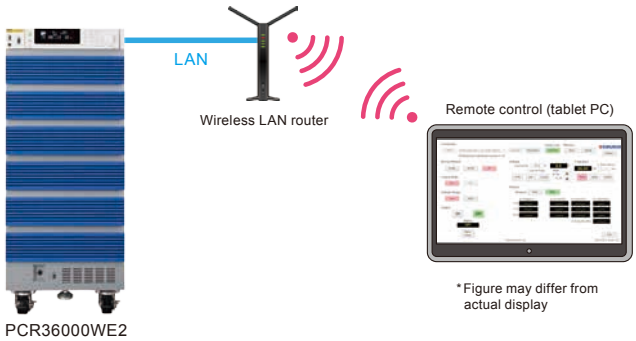
LAN, USB, RS232C Standard Digital Interface

The PCR-WE/WE2 series includes a flexible digital interface for users utilizing LAN, USB, and RS232C communication interfaces (GPIB factory option available). LAN connection is LXI compliant, allowing you to monitor and control your device wherever you are via computer, smartphone, or tablet web browser. This feature is particularly important when conducting critical AC tests in anechoic chambers/shield rooms. Additionally, the PCR-WE can be controlled directly with easy remote-control software (coming soon) for customers with limitations in external communication.

● Wired LAN connection (optical cable)



● Wireless LAN connection



Power Saving Mode *6 kVA models and higher

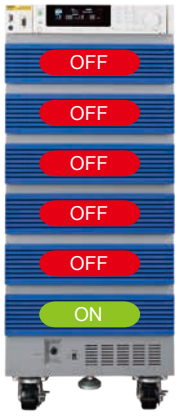
●Sleep mode

If the PCR-WE/W2 does not detect output for a certain amount of time, the power unit will go into "sleep mode" and cut power consumption.

●Power-saving mode

The power-saving feature allows the PCR-WE to cut the costs of operation by drawing power from only the necessary power modules required to reach the output setting.

[Example]
Only 6 kVA drawn from the 36 kVA model

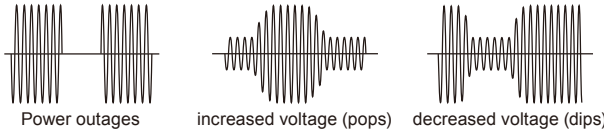


Modular design allows for simple maintenance

Each separate power module can be removed and replaced for maintenance and calibration. *For models 6 kVA and higher

Power Line Error Simulation

The PCR-WE/WE2 series can simulate various power line abnormalities such as power outages, voltage drops (dips) and voltage increases (pops). This feature is useful for the testing of power-source switches and various electronic devices.



Built-in parallel operation driver software! Easy parallel operation with a single connection cable.

The PCR-WE/WE2 series can be easily configured in a parallel connection with a single cable* per connection for all models 6kVA and above. This cable can be used in synchronization with a power-interlock cable* to control the ON/OFF status of master/slave units. *Optional

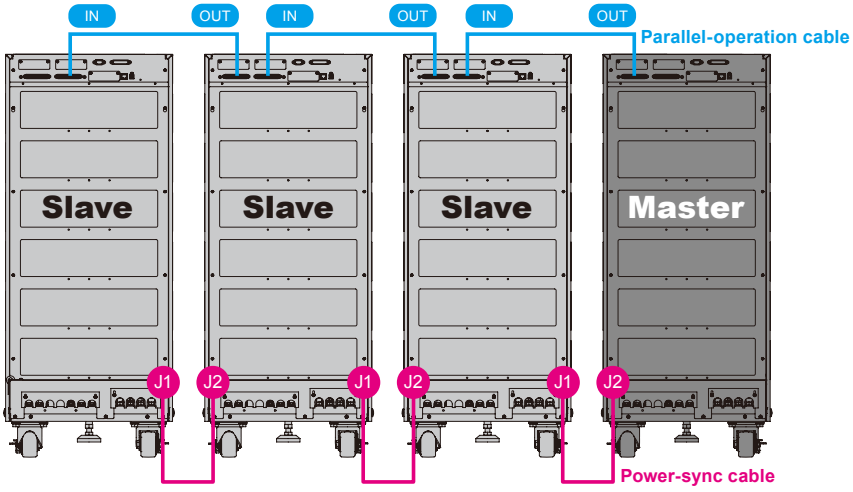
Performance

●Example of the combined system using same models

Capacity	Model	Qty	Parallel operation cable	Qty	Power-sync cable	Qty
12 kVA	PCR6000WE2	2	PC01-PCR-WE	1	LC01-PCR-LE	1
48 kVA	PCR24000WE2R	2	PC01-PCR-WE	1	LC01-PCR-LE	1
90 kVA	PCR30000WE2R	3	PC01-PCR-WE	2	LC01-PCR-LE	2
144 kVA	PCR36000WE2R	4	PC01-PCR-WE	3	LC01-PCR-LE	3

[PCR36000WE2R 4 units, example of 144 kVA]

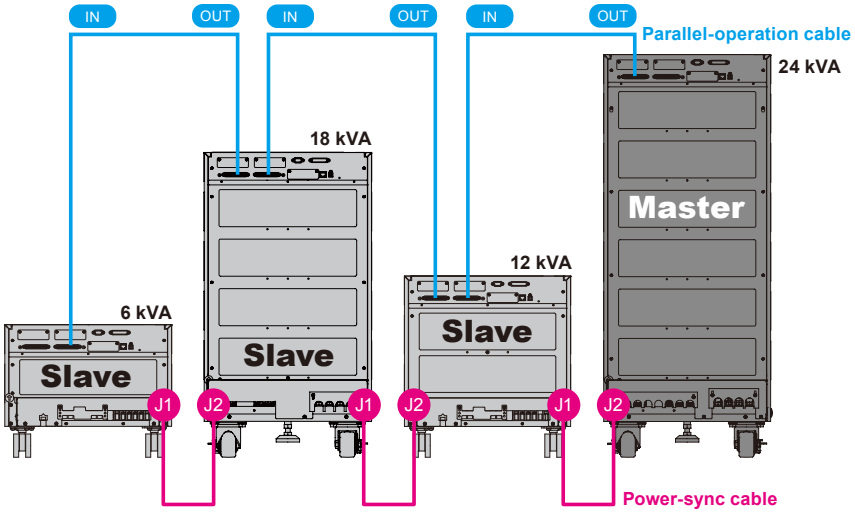
The figure below is a conceptual diagram. Power wiring etc. are also required for system build up. Please consult your local Kikusui distributor.



●Example of the combined system using different models

Capacity	Model	Part	Qty
60 kVA Parallel-operation system	PCR6000WE2R	AC/DC Power supplies (6 kVA)	1
	PCR12000WE2R	AC/DC Power supplies (12 kVA)	1
	PCR18000WE2R	AC/DC Power supplies (18 kVA)	1
	PCR24000WE2R	AC/DC Power supplies (24 kVA)	1
	PC01-PCR-WE	Parallel operation cable	3
	LC01-PCR-LE	Power-sync cable	3

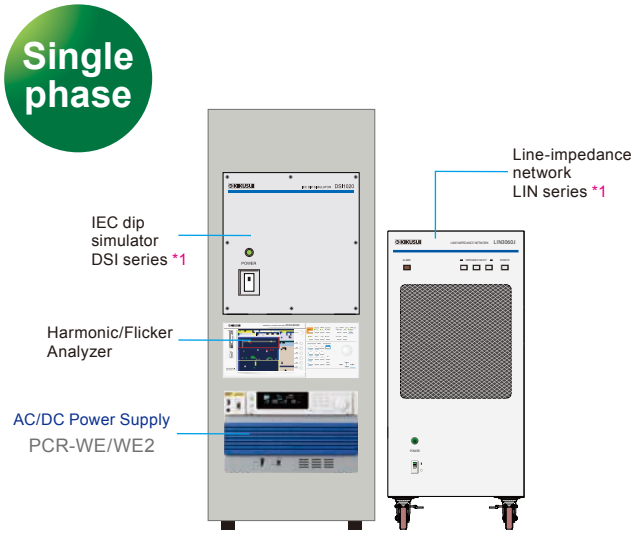
The figure below is a conceptual diagram. Power wiring etc. are also required for system build up. Please consult your local Kikusui distributor.



Applications

For Standard Compliance Testing

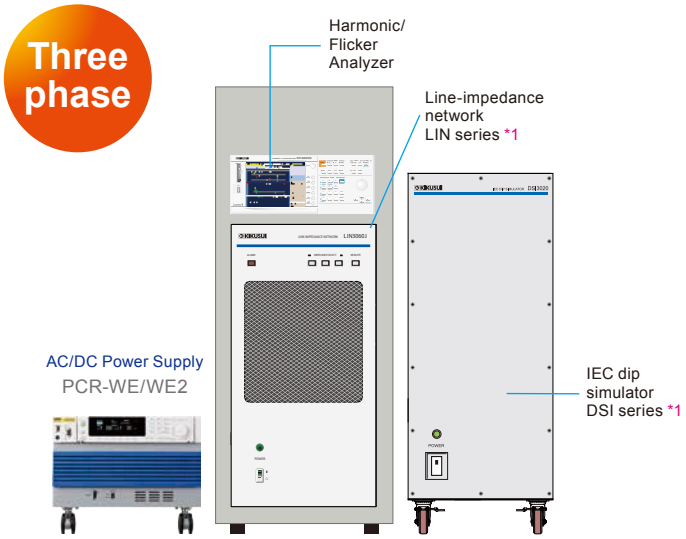
● Single-phase system



This system can simulate various conditions of phenomena occurring in AC power environments. It can be used for immunity tests of electrical and electronic devices, which are connected to a low-voltage distribution system, or which have DC power input ports, under the standard conditions as specified to the right. The test conditions can be set outside the standard range, allowing the system to be used for preliminary tests prior to standard tests, immunity-margin tests, and stress tests. The KHA3000 harmonic/flicker analyzer combines a PCR-WE/WE2 Series AC power supply, LIN Series line-impedance network*1, DSI series IEC dip simulator*2 and application software(Refer to pg.8), allowing tests that conform to IEC standards and JIS standards.

*1 Manufactured by special order.

● Three-phase system

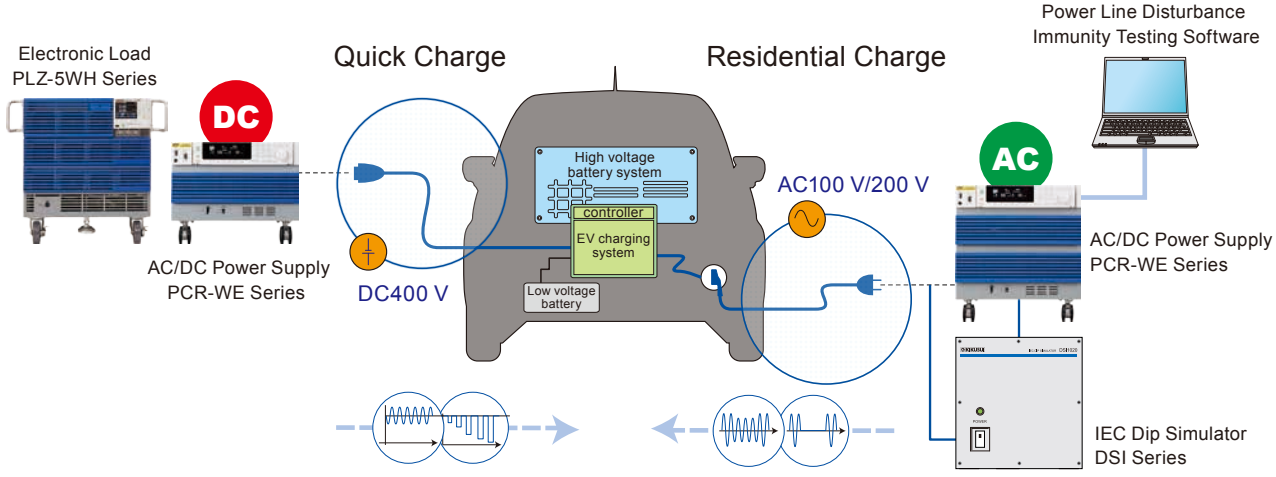


IEC61000-4-11	Voltage dipping, instantaneous power failure and voltage variation
IEC61000-4-13	Higher harmonics wave/interharmonic wave
IEC61000-4-14	Voltage swing
IEC61000-4-27	Unbalance in units
IEC61000-4-28	Variation in power-supply frequency for units with 16 A/phase
IEC61000-4-34	Voltage drop(dip), instantaneous power failure and voltage variation for units with input current exceeding 16 A/phase
IEC61000-4-17	Ripple at the DC input power terminal
IEC61000-4-29	Voltage drop(dip), instantaneous power failure and voltage variation in DC *2
IEC61000-3-2,12	Harmonic electric current limit level
IEC61000-3-3,11	Voltage fluctuation, Flicker limit level

*2 Designed for preliminary test purposes.

For Testing of the EV Charging System

● EV charging system (item under test)



Simple, user-friendly application software for various standard testing!

EMC IEC61000-4

Power Line Disturbance Immunity Testing Software

SD009-PCR-LE/WE (Quick Immunity Sequencer 2)

List of conformance to the EMC standard tests

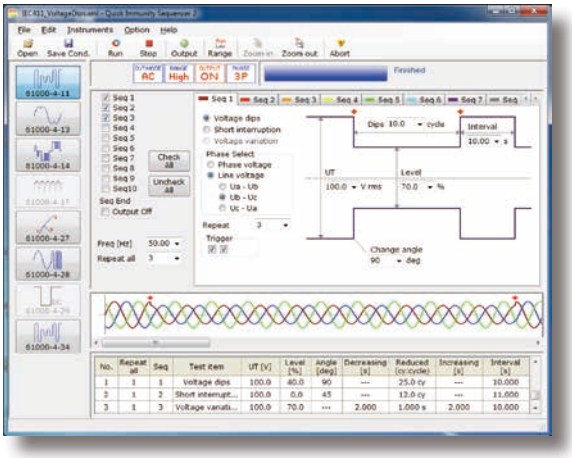
✔ : Conforming as standard ▲ : Partially non-conforming – : Function not available

Standard	Item	Conforming	
		Single-phase	Three-phase
IEC61000-4-11 Voltage dipping, instantaneous power failure and voltage variation	Voltage drop (dip)	✔ *1	✔ *1
	Instantaneous power failure	✔ *1	✔ *1
	Voltage variation	✔	✔
IEC61000-4-13 Higher harmonics wave/interharmonic wave	Flat curve	✔	✔
	Over swing	✔	✔
	Frequency sweep	✔	✔
	Odd harmonics the order of which is not a multiple of 3	✔	✔
	Odd harmonics the order of which is a multiple of 3	✔	✔
	Even harmonics	✔	✔
	Interharmonics	✔	✔
	Meister curve	✔	✔
IEC61000-4-14 Voltage swing	Voltage swing	✔	✔
	Interval	✔	✔
IEC61000-4-17 Ripple at the DC input power terminal	Single-phase rectifier circuit	✔	–
	Three-phase rectifier circuit	✔	–
IEC61000-4-27 Unbalance in units	Unbalance	–	▲ *2
IEC61000-4-28 Variation in-power supply frequency for units with 16 A/phase	Frequency variation	✔	✔
IEC61000-4-29 Voltage drop (dip), instantaneous power failure and voltage variation in DC	Voltage drop (dip)	▲ *3	–
	Instantaneous power failure	▲ *4	–
	Voltage variation	✔	–
IEC61000-4-34 Voltage drop (dip), instantaneous power failure and voltage variation for units with input current exceeding 16 A/phase	Voltage drop (dip)	▲ *5	▲ *5
	Instantaneous power failure	▲ *5	▲ *5
	Voltage variation	✔	✔

* Immunity testing for units with 16 A/phase except for those required by IEC61000-4-34

*1 Conforms to the standard when used in combination with IEC Dip Simulator DSI series. If using the PCR-WE/WE2 alone, the voltage dips and short-time power failures are preliminary tests.
*2 110 %, 95.2 %, 93.5 %, 90 %, 87 %, 80 %, 74 %, 71 %, 66 % need to respond to sudden changes of 1 µs to 5 µs. The voltage response of PCR-WE/WE2 is more than 55 µs at FAST, which is a preliminary test.
*3 The voltage response of PCR-WE/WE2 is more than 55 µs at FAST, which is a preliminary test.
*4 Must support output impedance greater than 100 kΩ. The PCR-WE/WE2 output impedance is less than 100 kΩ and therefore designed for preliminary testing purposes.
*5 The device between the range of 16A to 75 A requires having the capability of rapid change with 1 µs to 5 µs. The device exceeding 75 A is not required to have the capability of rapid change with 1µs to 5 µs. (It is relaxed to 1 µs to 50 µs for the device exceeding 75 A.)

The latest standards for IEC61000-4 supported!



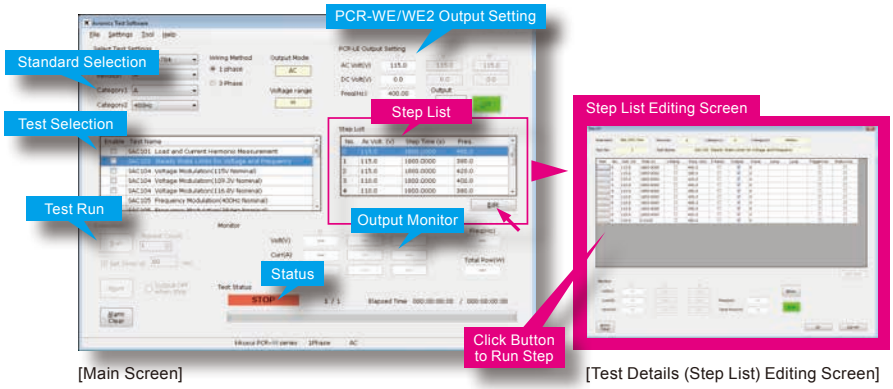
"Quick Immunity Sequencer 2" (model name: SD009-PCR-LE/WE) is an application software for immunity testing with the AC power supply PCR-WE/WE2 series system, based on the power line disturbance standard (IEC61000-4 Series) for the immunity testing of the EMC standard. Not only can it be used for compliance testing based on the latest standards or for some types of preliminary testing, but the software can be also employed for advance checking in development phases and for immunity margin tests, because it allows extended testing conditions to be set as needed.

Avionics Test Software

SD012-PCR-LE/WE

Supporting compliance testing of avionics test standards. The test pattern can be conducted from the library.

Supported Standards
Military Standard:MIL-STD-704A/E/F
Civilian Standard:RTCA DO-160F/G
Civilian Standard:JIS W0812:2004



[Main Screen] [Test Details (Step List) Editing Screen]

Test standards have been established that electrical components and parts installed on aircraft must meet. All electrical components and parts installed on the fuselage must comply with these standards, but the applicable test standards vary according to the intended use and purpose. Test standards can be largely divided into two types: military standards and civilian standards. In addition, aircraft manufacturers sometimes apply their own set of private standards.Avionics Test Software [SD012-PCR-LE/WE] is a software application that support to the aircraft test standards, and is used to control the PCR-WE/WE2 Series that enables you to conduct the test standards for the MIL-STD-704, RTCA/D0-160 and JIS W0812 standards. Test patterns are library-based, which enables tests to be easily run by simply selecting the wiring configuration and the type of test.In general, the 400 Hz AC power supply is used for large aircrafts, and the 28 V DC power supply is used for the small aircrafts

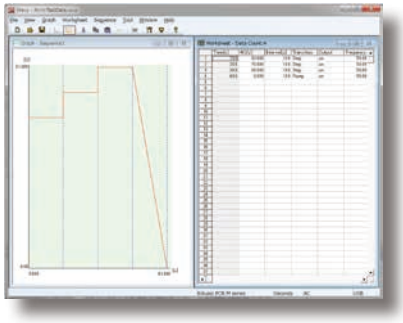
- Easy configuration - just select standard from library
- Test-step editing and saving - convenient for development and evaluation required with marginal testing
- Test-condition reporting function - enables test history logging
- Remote control via LAN

"Wavy" sequence creation software

SD032-PCR-WE (Wavy for PCR-WE)

The software extends the feature of waveform generation and sequence functions.
Easy sequence control without programming knowledge!

Trial version available on website!
http://www.kikusui.co.jp/en/download/index.html
Download !



▲Commandcontrol

▲Direct control

◀Graph viewer/Configuration

Wavy is an application software that supports sequence creation and the operation for Kikusui power supplies and electronic loads.
Wavy allows you to create and edit sequences visually with a mouse without programming knowledge.

- It makes you easier to create or edit the test-condition file required for the sequence operation.
- By using the storage function of test-condition data file, it enables you to manage the test condition of the standard routine test.
- The progress of execution sequence will be displayed on the "practical dialogue" with the setting value and the cursor.
- It is possible to observe the intuitionistic output through the "monitor graph" that plots the ongoing monitor value.
- You can save the acquired monitor data as a test result.
- Added "waveform image" window let's you easily keep track of the AC signal.
- Allows you to edit and create the new arbitrary waveform easily. You can instantly write and then output the created arbitrary waveform.
- You can select or deselect the pause function, trigger function, AC waveform etc. as necessary.

Remote-control software for the Windows tablet

SD021-PCR-LE/WE (RMT CONT SOFTWARE FOR PCR-LE/WE)

The Windows tablet can be used as a remote controller !

The SD021-PCR-LE/WE is software that can control the PCR-WE/WE2 Series. It is capable of changing the setting condition of the "wiring method", "output mode", "voltage range", "voltage value", and "frequency value". And the settings changed by remote control can be saved and recalled. Moreover, it can display the measurement value of the AC power supply. Remote operation and control of the AC power supply can be easily achieved from a distance.

● Operating Environment : Intel Core 2 or later / Windows 8.1 / Memory 4GB / Storage 128GB / Display resolution 133 x 768 or higher / USB port

Screen display (main screen)

Exterior Design

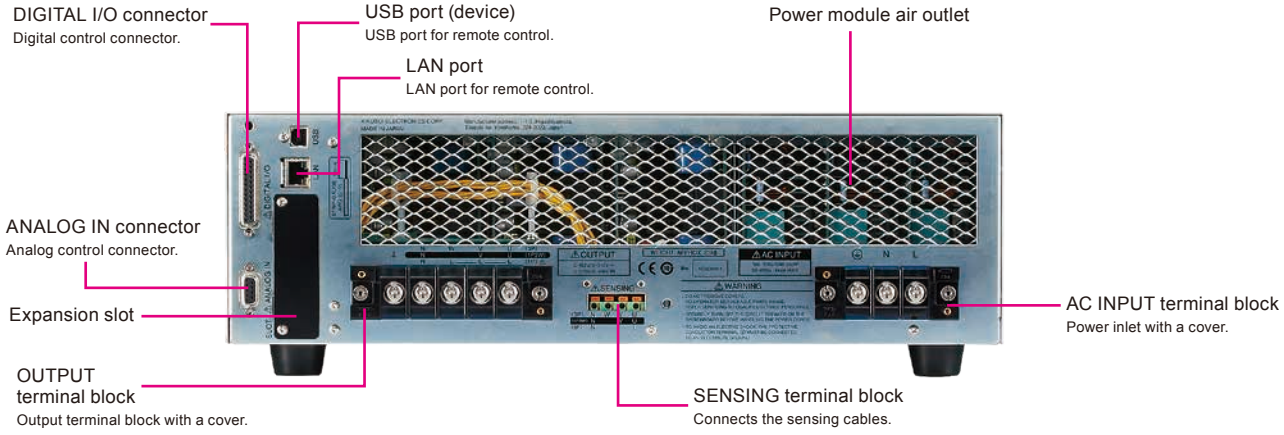
Front Panel

PCR1000WE/2000WE/3000WE2

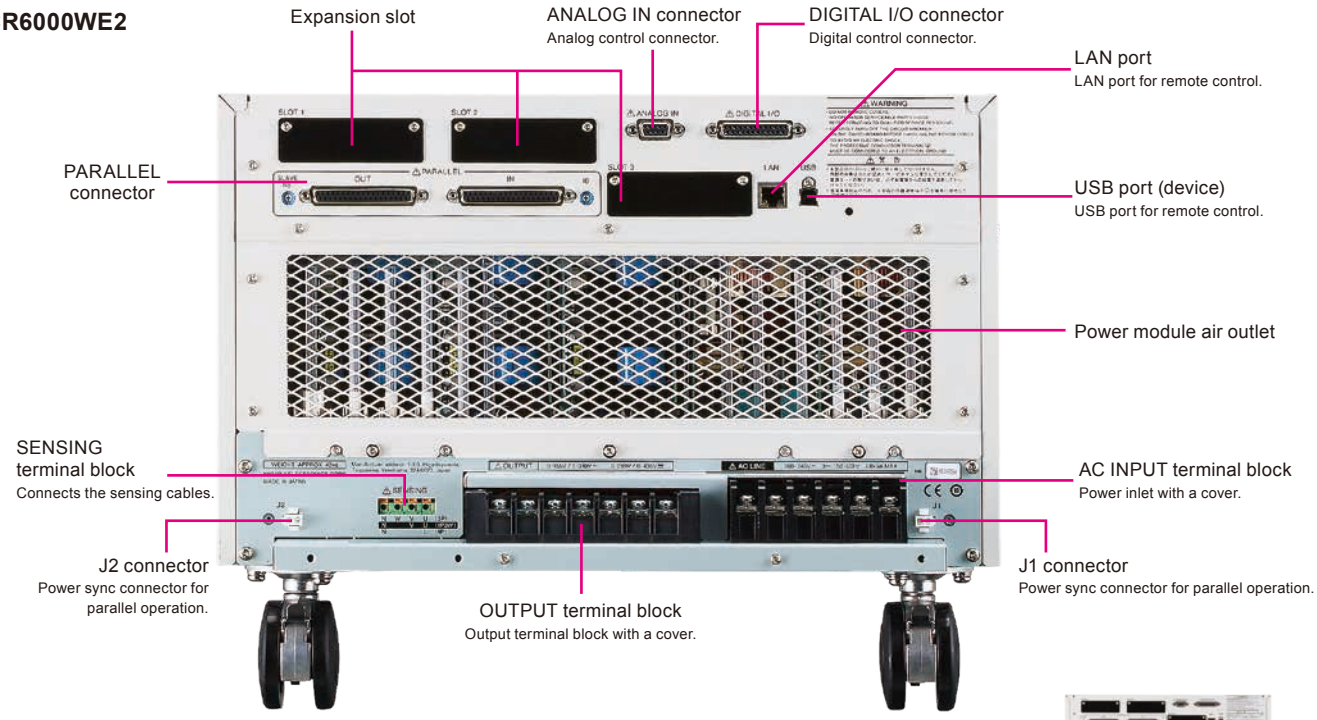
PCR12000WE2

Rear Panel

PCR1000WE/2000WE/3000WE2 *The image is PCR3000WE2.



PCR6000WE2



PCR1000WE
PCR2000WE
PCR3000WE2

PCR6000WE2
PCR6000WE2R

PCR12000WE2
PCR12000WE2R

PCR18000WE2
PCR18000WE2R
PCR24000WE2
PCR24000WE2R

PCR30000WE2
PCR30000WE2R
PCR36000WE2
PCR36000WE2R

Specifications

Unless specified otherwise, the specifications are for the following settings and conditions.
• The warm-up time is 30 minutes (with current flowing). • TYP: These are typical values that are representative of situations where the product operates in an environment with an ambient temperature of 23°C. These values do not guarantee the performance of the <series name>.
• setting: Indicates a setting. • reading: Indicates the readout value. • f.s: Indicates full scale.

Input (AC rms)

Model		Single-phase output		Single-phase/three-phase switchable model						
		PCR 1000WE	PCR 2000WE	PCR 3000WE2	PCR 6000WE2 PCR 6000WE2R	PCR 12000WE2 PCR 12000WE2R	PCR 18000WE2 PCR 18000WE2R	PCR 24000WE2 PCR 24000WE2R	PCR 30000WE2 PCR 30000WE2R	PCR 36000WE2 PCR 36000WE2R
Nominal input voltage	1P2W input model	100 Vac to 120 Vac / 200 Vac to 240 Vac *1			—					
	3P3W input model	—			200 Vac to 240 Vac (3 phase line voltage) *2					
	3P4W input model	—			380 Vac to 480 Vac (3 phase line voltage) *3					
Phase		Single-phase			Three-phase					
Nominal input Frequency		50 Hz to 60 Hz								
Input frequency range		45 Hz to 65 Hz								
Apparent power		1.4 kVA and less	2.7 kVA and less	4 kVA and less	7.8 kVA and less	15.6 kVA and less	23.4 kVA and less	31.2 kVA and less	39 kVA and less	46.8 kVA and less
Power factor *5		0.95(TYP)			0.97(TYP) 3P3W input model *2 / 0.95(TYP) 3P4W input model *3					
Maximum current *4	1P2W input model	17 A / 8.5 A	32 A / 16 A	48 A / 24 A	—					
	3P3W input model *2	—			27 A	53 A	80 A	106 A	133 A	159 A
	3P4W input model *3	—			14 A	28 A	42 A	56 A	70 A	84 A
Holdup time for power interruption *5		10 ms								

*1 100 V/200 V input system (auto select) *2 PCR-WE2R models *3 PCR-WE2 models *4 Current at the minimum voltage (within the allowable variation range)
*5 At output voltage 100 V/200 V, rated output current, sine wave, load power factor 1, output frequency 40 Hz to 1 kHz.

Output

Model		Single-phase output		Single-phase/three-phase switchable model						
		PCR 1000WE	PCR 2000WE	PCR 3000WE2	PCR 6000WE2 PCR 6000WE2R	PCR 12000WE2 PCR 12000WE2R	PCR 18000WE2 PCR 18000WE2R	PCR 24000WE2 PCR 24000WE2R	PCR 30000WE2 PCR 30000WE2R	PCR 36000WE2 PCR 36000WE2R
AC voltage *1	Rating	155 V / 310 V *2								
	Setting range	0 V to 157.5 V / 0 V to 315.0 V								
	Setting resolution	0.1 V								
	Setting accuracy (phase voltage) *3 *4	±(0.3 % of setting + 0.3 V), ±(0.3 % of setting + 0.6 V)								
	Setting accuracy (Line voltage) *3 *4	±(0.3 % of setting + 0.3 V), ±(0.3 % of setting + 0.6 V) *5								
Maximum current *1 *6	Single-phase output	10 A / 5 A	20 A / 10 A	30 A / 15 A	60 A / 30 A	120 A / 60 A	180 A / 90 A	240 A / 120 A	300 A / 150 A	360 A / 180 A
	Single-phase three-wire output, Three-phase output	—		10 A / 5 A	20 A / 10 A	40 A / 20 A	60 A / 30 A	80 A / 40 A	100 A / 50 A	120 A / 60 A
Phase		1P		1P2W, 1P3W, 3P4W switchable						
Power capacity	Single-phase output	1 kVA	2 kVA	3 kVA	6 kVA	12 kVA	18 kVA	24 kVA	30 kVA	36 kVA
	Three-phase output	—								
	Single-phase three-wire output			2 kVA	4 kVA	8 kVA	12 kVA	16 kVA	20 kVA	24 kVA
Maximum peak current *11		4 times the maximum output current								
Inrush current capacity *3		3 times the rated current (0.07 s)			1.4 times the rated current (0.5 s)					
Load power factor		0 to 1 (leading or lagging)								
Frequency	Setting range	1 Hz to 5 kHz *7 (5 kHz -3dB, <40 Hz derating required)								
	Resolution	0.01 Hz(1.00 Hz to 100.0 Hz), 0.1 Hz(100.0 Hz to 1000 Hz), 1 Hz(1000 Hz to 5000 Hz)								
	Accuracy	±0.01 % *3, Temperature coefficient : ±0.005 %/°C								
Phase	Resolution	—		0.1°(1 Hz to 500 Hz), 1°(500 Hz to 4 kHz), 2°(4 kHz or more)						
	Accuracy *3	—		Within 120°±(0.4°+2.5 μs) *8 Within (120°±(0.4°+fo×0.9×10^{-3}°)) fo : frequency [kHz]						
DC voltage	Rating *1	-219 V to +219 V / -438 V to +438 V *2								
	Setting range *1	-222.5 V to +222.5 V / -445.0 V to +445.0 V								
	Resolution	0.1 V								
	Accuracy *9	±(0.05 % of setting +0.1 V)								
	Maximum current *6	10 A / 5 A	20 A / 10 A	30 A / 15 A	60 A / 30 A	120 A / 60 A	180 A / 90 A	240 A / 120 A	300 A / 150 A	360 A / 180 A
	Power capacity	1 kW	2 kW	3 kW	6 kW	12 kW	18 kW	24 kW	30 kW	36 kW
Efficiency *10		82 %(TYP)			85 %(TYP)					

*1 output L range, output H range
*2 Specification guaranteed voltage range is 1 V to 155 V/2 V to 310 V (AC) and 1.4 V to 219 V/2.8 V to 438 V (DC)
*3 At ambient temperature of 23 °C±5 °C.
*4 No load, output frequency 45 Hz to 65 Hz
*5 When the phase angle of 120° of each phase.
*6 For output phase voltage of 100 Vac to 155 Vac/200 Vac to 310 Vac and output voltage of 100 Vdc to 219 Vdc/200 Vdc to 438 Vdc, output current is reduced with output voltage. When the output frequency is between 1 Hz and 40 Hz, the output current is reduced by the output frequency. The output current is 70 % at 1 Hz.
*7 On the 500 Hz limit model, the frequency is limited to 1 Hz to 500.0 Hz for three-phase output.
*8 The following show the angles obtained by calculating the expression with the specified frequency.
Within 120°±0.5° (when generating 60 Hz output)
Within 120°±0.8° (when generating 400 Hz output)
*9 With no load at 23°C±5°C.
*10 When the output 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 1 kHz.
*11 Depends on the load input impedance.

Regeneration Function

Only for three-phase, three-wire input models with R at the end of the model name. Single-phase output models and three-phase, four-wire input models do not have regeneration function. For regeneration within the installation site only.

Model		Single-phase/three-phase switchable model					
		PCR 6000WE2R	PCR 12000WE2R	PCR 18000WE2R	PCR 24000WE2R	PCR 30000WE2R	PCR 36000WE2R
Maximum regenerated power *1		6 kVA	12 kVA	18 kVA	24 kVA	30 kVA	36 kVA
Maximum reverse power flow current *1 *2	1P2W	60 A / 30 A	120 A / 60 A	180 A / 90 A	240 A / 120 A	300 A / 150 A	360 A / 180 A
	1P3W 3P	20 A / 10 A	40 A / 20 A	60 A / 30 A	80 A / 40 A	100 A / 50 A	120 A / 60 A
Regeneration efficiency *3		85 %(TYP)					
Output current harmonic distortion		THD: 5 % and less, each harmonic: 3 % and less (2nd to 40th)					

*1 When the output phase voltage is between 100 Vac and 155 Vac or 200 Vac and 310 Vac, the output current is reduced by the output voltage.
When the output frequency is between 1 Hz and 40 Hz, the output current is reduced by the output frequency. The output current is 70 % at 1 Hz.
*2 When the output voltage is 100 V or 200 V and the output frequency is between 40 Hz and 1 kHz (when the current phase is -90 deg to -180 deg or 90 deg to 180 deg relative to the output voltage)
*3 When the output voltage is 100 V or 200 V, the output current is the rated value, sine wave, the load power factor is 1, and the output frequency is between 45 Hz to 65 Hz.

Output Voltage Stability (Phase Voltage)

Model	Single-phase output		Single-phase/three-phase switchable model					
	PCR 1000WE	PCR 2000WE	PCR 3000WE2	PCR 6000WE2 / PCR 6000WE2R	PCR 12000WE2 / PCR 12000WE2R	PCR 18000WE2 / PCR 18000WE2R	PCR 24000WE2 / PCR 24000WE2R	PCR 30000WE2 / PCR 30000WE2R	PCR 36000WE2 / PCR 36000WE2R
Line regulation *1	Within ±0.1 %								
Load regulation *2	Within ±0.1 V/ ±0.2 V(1 Hz to 100 Hz) Within ±0.3 V/ ±0.6 V(100.1 Hz to 500 Hz) Within ±1 V/ ±2 V(500.1 Hz to 1 kHz)			Within ±0.2 V/ ±0.4 V(1 Hz to 100 Hz) Within ±0.3 V/ ±0.6 V(100.1 Hz to 500 Hz) Within ±1 V/ ±2 V(500.1 Hz to 1 kHz)					
Output frequency variation *3	When the output voltage correction function is enabled : Within ±0.3 %(1 Hz to 1 kHz), Within ±10 %(1001 Hz to 5 kHz) When the output voltage correction function is disabled : Within -3 dB(5 kHz)								
Ripple noise *4	≤ 0.25 Vrms			≤ 0.3 Vrms	≤ 0.4 Vrms	≤ 0.5 Vrms	≤ 0.6 Vrms	≤ 0.7 Vrms	
Ambient temperature variation *5	±100 ppm/ °C (TYP)								
Total harmonic distortion *6	0.3 % and less(1 Hz to 100 Hz), 0.5 % and less(100.1 Hz to 330 Hz), 1.5 %/kHz and less(330.1 Hz to 5 kHz)								
Transient response *7	Response FAST : 55 µs(TYP)								
Response speed Tr/Tf *8	Response FAST : 55 µs(TYP) Response MEDIUM : 100 µs(TYP) Response SLOW : 300 µs(TYP)								

*1 With respect to changes in the rated range of input voltage.
*2 With respect to 0 % to 100 % changes in the rating of output current.
When the output phase voltage is between 80 V and 155 V (L range) or 160 V and 310 V (H range) and the load power factor is 1, and the response is FAST.
At the output terminal block, when the compensation function is not used.
*3 Voltage variation over 40 Hz to 5 kHz in AC mode with 55 Hz as the reference.
When the output phase voltage is between 80 V and 155 V or 160 V and 310 V and the load power factor is 1, and the response is FAST, at the output terminal block.
*4 5 Hz to 1 MHz components in DC mode.
*5 With respect to changes in the operating temperature range. When the output phase voltage is 100 V or 200 V, with no load.
*6 When the output phase voltage is between 80 V and 155 V or 160 V and 310 V and the load power factor is 1, and the response is FAST, at the output terminal block.
*7 When the output 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.
*8 At 10 % to 90 % of the output voltage.

Measurement

Model		Single-phase output		Single-phase/three-phase switchable model					
		PCR 1000WE	PCR 2000WE	PCR 3000WE2	PCR 6000WE2 / PCR 6000WE2R	PCR 12000WE2 / PCR 12000WE2R	PCR 18000WE2 / PCR 18000WE2R	PCR 24000WE2 / PCR 24000WE2R	PCR 30000WE2 / PCR 30000WE2R	PCR 36000WE2 / PCR 36000WE2R
Voltage Rms value	Resolution	0.1 V								
	Accuracy *1	DC, 40 Hz to 999.9 Hz : ±(0.3 % of reading +1 V) 1 kHz to 5 kHz : ±(0.5 % of reading +1 V)								
Current Rms value	Resolution	0.01 A			0.1 A					
	Accuracy *1 *2	45 Hz to 65 Hz : ±(0.3 % of reading +0.3 % of f.s) DC, 40 Hz to 999.9 Hz : ±(0.6 % of reading +0.6 % of f.s) 1 kHz to 5 kHz : ±(1.2 % of reading +1.2 % of f.s)								
Current peak value	Resolution	0.01 A			0.1 A				1 A	
	Accuracy *1 *3	4 % of f.s								
Active power	Resolution	1 W			10 W					
	Accuracy *1 *2 *4	45 Hz to 65 Hz : ±(0.3 % of reading +0.3 % of f.s)								
Apparent power	Resolution	1 VA			10 VA					
Power factor	Resolution	0.01								
Phase difference	Resolution	0.1°								
Harmonic measure-ment	Frequency range (fundamental wave)	10 Hz to 1 kHz								
	Upper limit of harmonic analysis	5th to 50th								
	FFT data length	4096								
	Measurement items	Rms voltage and current, phase angle, THD								
Recommended calibration period		1 year								

*1 At ambient temperature of 23 °C±5 °C.
*2 At 10 % to 100 % of maximum rated current, sine wave.
*3 Pulse height of sine wave
*4 At a power factor of 1.

Specifications

General

Model		Single-phase output		Single-phase/three-phase switchable model						
		PCR 1000WE	PCR 2000WE	PCR 3000WE2	PCR 6000WE2 / PCR 6000WE2R	PCR 12000WE2 / PCR 12000WE2R	PCR 18000WE2 / PCR 18000WE2R	PCR 24000WE2 / PCR 24000WE2R	PCR 30000WE2 / PCR 30000WE2R	PCR 36000WE2 / PCR 36000WE2R
Insulation resistance	Between input and chassis, output and chassis, input and output	500 Vdc, 10 MΩ or more								
Withstand voltage	Between input and chassis, output and chassis,	1500 Vac / 2150 Vdc, 1 minute								
	input and output	1500 Vac / 2150 Vdc, 1 minute								
Electromagnetic compatibility (EMC) *1 *2		Complies with the requirements of the following directive and standards. EMC Directive 2014/30/EU EN 61326-1 (Class A*3), EN 55011 (Class A*3, Group 1*4), EN 61000-3-2, EN 61000-3-3 Applicable under the following conditions The maximum length of all cabling and wiring connected to the product must be less than 3 m.								
Safety *1		Complies with the requirements of the following directive and standards. Low Voltage Directive 2014/35/EU*2 EN 61010-1 (Class I*5, Pollution Degree2*6)								
Environ-mental conditions	Operating environment	Indoor use, overvoltage category II								
	Operating temperature range	0 °C to +50 °C (32 °F to +122 °F)								
	Storage temperature range	-10 °C to +60 °C (14 °F to +140 °F)								
	Operating humidity range	20 %rh to 80 %rh (no condensation)								
	Storage humidity range	90 %rh and less (no condensation)								
	Altitude	Up to 2000 m								
Dimensions		See page 11								
Weight		16 kg (35.3 lb)	20 kg (44.1 lb)	23 kg (50.7 lb)	43 kg(94.8 lb) / 42 kg(92.6 lb)	65 kg(143.3 lb) / 66 kg(145.5 lb)	120 kg (264.6 lb)	130 kg (286.6 lb)	160 kg (352.7 lb)	170 kg(374.8 lb) / 180 kg(396.8 lb)
Input terminal		M6			M5		200 V input model : M8 400 V input model : M5			
Output terminal		M6			M5		M6		M8	
Accessories		Cable tie (4 pcs.), External control(DIGITAL I/O) connector (1 pc.), Heavy object warning label (1 pc.)*Excludes PCR1000WE, Read This First! (1 copy), Quick Reference(1 sheet), CD-ROM (1 disc), Safety Information (1 copy)								

*1 Does not apply to specially ordered or modified products.
*2 Only on models that have the CE marking on the panel.
*3 This is Class A equipment. This product is intended for use in an industrial environment. This product may cause interference if used in residential areas. Such use must be avoided unless the user takes special measures to reduce electromagnetic emissions to prevent interference to the reception of radio and television broadcasts.
*4 This is Group 1 equipment. This product does not generate and/or use intentionally radio-frequency energy, in the form of electromagnetic radiation, inductive and/or capacitive coupling, for the treatment of material or inspection/analysis purpose.
*5 This is Class I equipment. Be sure to ground this product's protective conductor terminal. The safety of this product is only guaranteed when the product is properly grounded.
*6 Pollution is addition of foreign matter (solid, liquid or gaseous) that may produce a reduction of dielectric strength or surface resistivity. Pollution Degree 2 assumes that only non-conductive pollution will occur except for an occasional temporary conductivity caused by condensation.

Output Impedance Setting

Model			Single-phase output		Single-phase/three-phase switchable model						
			PCR 1000WE	PCR 2000WE	PCR 3000WE2	PCR 6000WE2 / PCR 6000WE2R	PCR 12000WE2 / PCR 12000WE2R	PCR 18000WE2 / PCR 18000WE2R	PCR 24000WE2 / PCR 24000WE2R	PCR 30000WE2 / PCR 30000WE2R	PCR 36000WE2 / PCR 36000WE2R
L range	Resistance component	1P	0 Ω to 2000 mΩ	0 Ω to 1000 mΩ	0 Ω to 667 mΩ	0 Ω to 333 mΩ	0 Ω to 167 mΩ	0 Ω to 111 mΩ	0 Ω to 83 mΩ	0 Ω to 67 mΩ	0 Ω to 56 mΩ
		1P3W 3P	—	—	0 Ω to 2000 mΩ	0 Ω to 1000 mΩ	0 Ω to 500 mΩ	0 Ω to 333 mΩ	0 Ω to 250 mΩ	0 Ω to 200 mΩ	0 Ω to 167 mΩ
	Reactance component	1P	80 μH to 2000 μH	40 μH to 1000 μH	27 μH to 667 μH	13 μH to 333 μH	7 μH to 167 μH	4 μH to 111 μH	3 μH to 83 μH	3 μH to 67 μH	2 μH to 56 μH
		1P3W 3P	—	—	80 μH to 2000 μH	40 μH to 1000 μH	20 μH to 500 μH	13 μH to 333 μH	10 μH to 250 μH	8 μH to 200 μH	7 μH to 167 μH
H range	Resistance component	1P	0 Ω to 8000 mΩ	0 Ω to 4000 mΩ	0 Ω to 2667 mΩ	0 Ω to 1333 mΩ	0 Ω to 667 mΩ	0 Ω to 444 mΩ	0 Ω to 333 mΩ	0 Ω to 267 mΩ	0 Ω to 222 mΩ
		1P3W 3P	—	—	0 Ω to 8000 mΩ	0 Ω to 4000 mΩ	0 Ω to 2000 mΩ	0 Ω to 1333 mΩ	0 Ω to 1000 mΩ Ω	0 Ω to 800 mΩ	0 Ω to 667 mΩ
	Reactance component	1P	320 μH to 8000 μH	160 μH to 4000 μH	107 μH to 2667 μH	53 μH to 1333 μH	27 μH to 667 μH	18 μH to 444 μH	13 μH tp 333 μH	11 μH to 267 μH	9 μH to 222 μH
		1P3W 3P	—	—	320 μH to 8000 μH	160 μH to 4000 μH	80 μH to 2000 μH	53 μH to 1333 μH	40 μH to 1000 μH	32 μH to 800 μH	27 μH to 667 μH

Limit Values and Protection Functions (Common Specification)

			Setting range	Setting resolution
Voltage protection	AC voltage upper limit AC voltage lower limit		0.0 V to 315.0 V	0.1 V
	DC voltage upper limit DC voltage lower limit		-445.5 V to 445.5 V	0.1 V
	Output overvoltage protection(OVP)	Rms value	14.0 V to 489.5 V	0.1 V
		Positive peak value Negative peak value	14.0 V to 489.5 V -489.5 V to -14.0 V	0.1 V
	Power module overvoltage protection		Fixed	—
	Output undervoltage protection (UVP)		0.0 V to 489.5 V	0.1 V
Frequency protection	Frequency upper limit Frequency lower limit		1 Hz to 5000 Hz 500 Hz LMT model: 1 Hz to 500 Hz (Three-phase output)	0.01 Hz (1.00 Hz to 100.0 Hz) 0.1 Hz (100.0 Hz to 1000 Hz), 1 Hz (1000 Hz to 5000 Hz)
Current protection	Current limit *1		Maximum output current × 0.1 to maximum output current × 1.1	0.01 A (0.35 A to 100.0 A), 0.1 A (100.0 A to 1000 A)
	Positive peak current limit Negative peak current limit *2		Maximum output current × 0.1 to maximum output current × 4.2	
Overheat protection	Power module overheat protection		Fixed	—
	Fan error		Fixed	—
Overload protection			Rated current or current limit	Current limit resolution
Independent operation detection			Fixed	—
Sensing error detection			±(10 % +10 V) with respect to the output terminal voltage	—

*1 The current that can actually be supplied is 1.1 times the rated current or the current limit, whichever is less.
*2 The current that can actually be supplied is the maximum peak current or the current limit, whichever is less.

Communication Interface (Common Specification)

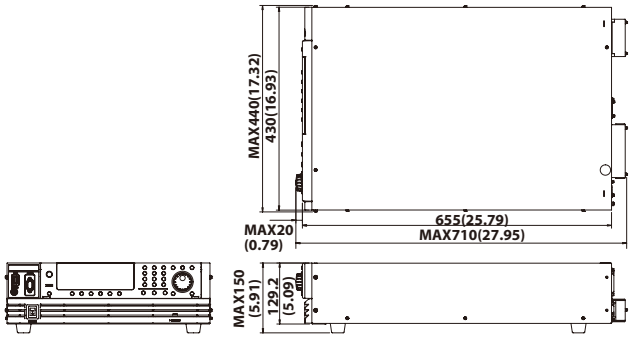
USB	Complies with the USB 2.0 specifications; data rate: 480 Mbps (high speed), socket B type, self-powered, Complies with the USBTMC-USB488 device class specifications.
LAN	IEEE802.3, 100Base-TX Ethernet LXI Rev.1.5 2016 (extended functions: VXI-11, HiSLIP, IPv6), data rate: 100 Mbps (auto negotiation, full speed) AUTO MDIX function IPv4, RJ45 connector, category 5, straight cable Complies with SCPI Specification 1999.0
RS232C	Complies with the EIA232D specifications, asynchronous full duplex, D-SUB 9-pin connector (male), crossover cable (null modem), 9600bps/19200bps/38400bps/57600bps/115200bps
GPIB (option)	Complies with IEEE Std 488.1-1987 SH1, AH1, T8, L4, SR0, RL0, PP0, DC0, DT0, C0, E1 24-pin connector (receptacle)


KIKUSUI
AC POWER SUPPLY
PCR6000WE2
OUTPUT
SLEEP
ESC
F1
F2
POWER
6U
approx. 262 mm
(10.32 inch)
6kVA
3 times
the power
*of previous PCR-W series
Actual
size

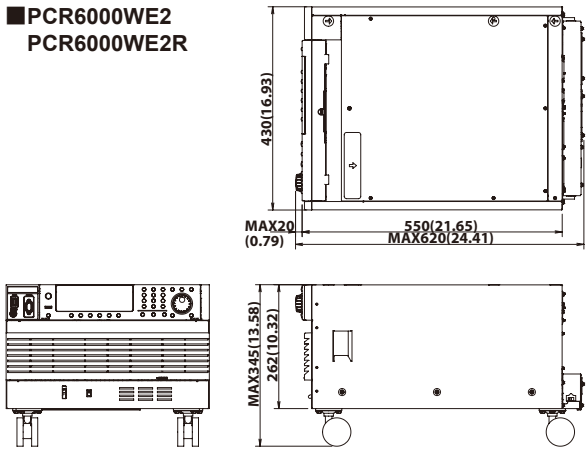
Dimensions (Unit:mm(inches))

PCR WE/WE2 SERIES
AC POWER SUPPLY

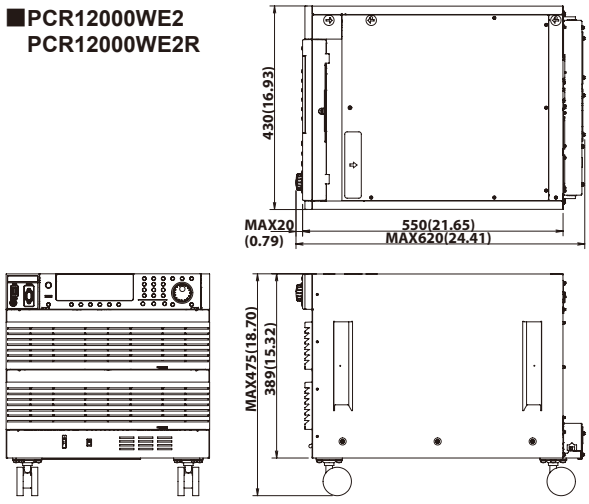
■PCR1000WE/ PCR2000WE/ PCR3000WE2



■PCR6000WE2
PCR6000WE2R

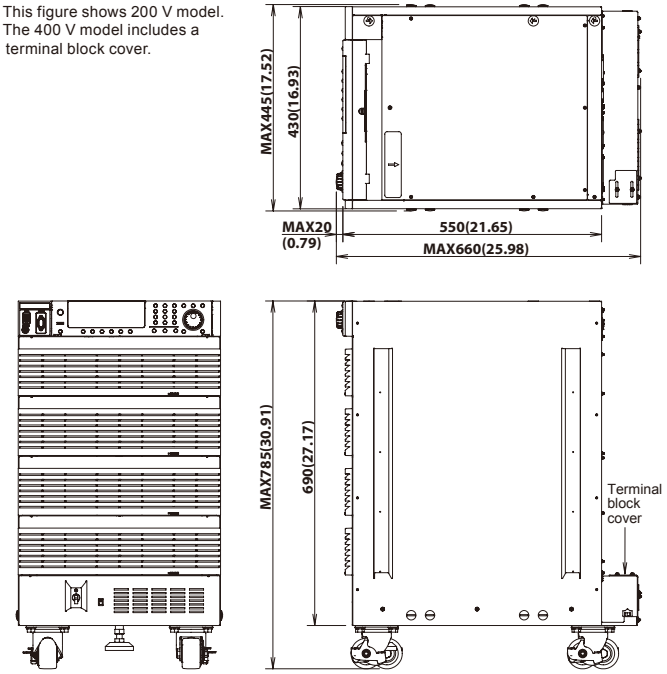


■PCR12000WE2
PCR12000WE2R



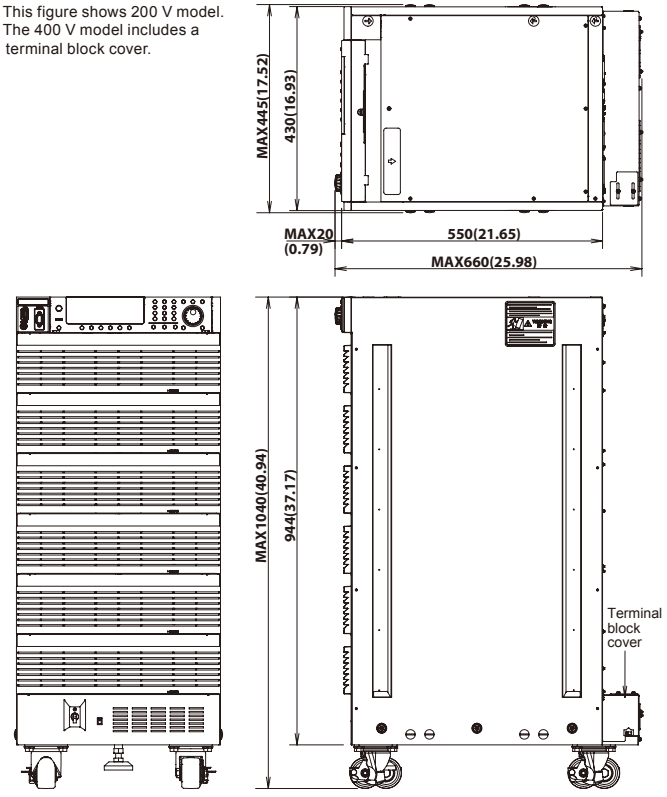
■ PCR18000WE2/ PCR18000WE2R
PCR24000WE2/PCR24000WE2R

- This figure shows 200 V model.
- The 400 V model includes a terminal block cover.



■ PCR30000WE2/ PCR30000WE2R
PCR36000WE2/PCR36000WE2R

- This figure shows 200 V model.
- The 400 V model includes a terminal block cover.



Options

■ GPIB Interface Boards
IB07-PCR-WE
This board enables you to control the PCR-WE/WE2 Series over GPIB.

■ Parallel-Operation Cable (1 m)
PC01-PCR-WE

■ Power-sync Cable (1 m)
LC01-PCR-LE

■ Base Hold Angles
OP03-KRC

■ External-Control Connector
OP01-PCR-WE (for DIGITAL I/O)

■ External-Control Connector
OP02-PCR-WE (for ANALOG I/O)

■ Rack Mount Brackets
For PCR1000WE/2000WE/3000WE2
KRB3-TOS (EIA inch rack)
KRB150-TOS (JIS millimeter rack)
For PCR6000WE2(R)
KRB6 (EIA inch rack)
KRB300 (JIS millimeter rack)
For PCR12000WE2(R)
KRB9 (EIA inch rack)
KRB400-PCR-LE (JIS millimeter rack)

■ Output Terminal Box NEW

Easy to select output mode “single-phase, single-phase 3-wire, and three-phase” without re-wiring.

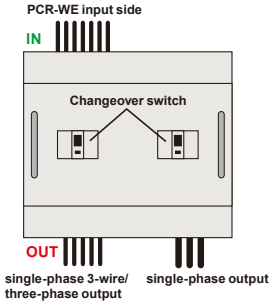
PCR-WE/WE2 installation example

- 2 line-ups depend on output power, “6 kVA to 18 kVA model” and “24 kVA to 36 kVA model”.
- Toggle between “single-phase” or “single-phase 3-wire/3-phase” output terminal using main unit switch.

An output terminal box gives output mode selection “single-phase, single-phase 3-wire and three-phase” of PCR-WE/WE2 series.
Selectable switches equipped in its body achieve multi-phase output without output cable re-wiring.

Input terminal surface

Output terminal surface



Connection concept diagram

■ Lineup

	Model
Output terminal box (18 kVA)	**OT01-PCR-WE**
Output terminal box (36 kVA)	**OT02-PCR-WE**

■ Connecting cable

	Model
For 6 k, 12 kVA (0.7 m)	**AC14-7P0.7M-M5M6**
For 6 k, 12 kVA (1.4 m)	**AC14-7P1.4M-M5M6**
For 18 kVA (0.7 m)	**AC22-7P0.7M-M6M6**
For 18 kVA (1.4 m)	**AC22-7P1.4M-M6M6**

	Model
For 24 kVA (0.7 m)	**AC22-7P0.7M-M6M8**
For 24 kVA (1.4 m)	**AC22-7P1.4M-M6M8**
For 30 k, 36 kVA (0.7 m)	**AC38-7P0.7M-M8M8**
For 30 k, 36 kVA (1.4 m)	**AC38-7P1.4M-M8M8**

Specification

		OT01-PCR-WE (18 kVA)	OT02-PCR-WE (36 kVA)
Input terminal (For PCR-WE/WE2 connection)		Shape : 7-pin M6 screw terminal block	Shape : 7-pin M8 screw terminal block
		Rating : AC 640 V / 60 A	Rating : AC 640 V / 120 A
Output terminal	Single-phase 2 wire	Shape : 3-pin M10 screw terminal block	Shape : 3-pin M10 screw terminal block
		Rating : AC 320 V / 180 A	Rating : AC 320 V / 360 A
	Single-phase 3 wire / Three phase	Shape : 5-pin M6 screw terminal block	Shape : 5-pin M8 screw terminal block
		Rating : AC 640 V / 60 A	Rating : AC 640 V / 120 A
Temperature range		0 ° C to 40 ° C	0 ° C to 40 ° C
Weight		15 kg or less	20 kg or less
Dimensions (W × H × D)		445 mm × 215 mm × 410 mm	445 mm × 270 mm × 410 mm

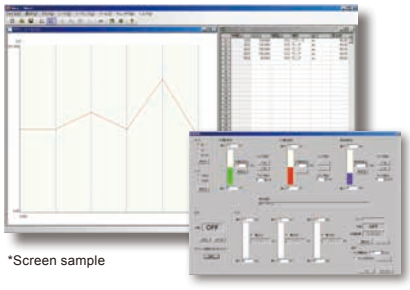
* This output terminal box does not include CE qualification.
When creating the power system with this terminal box, the PCR-WE/WE2 is not valid for CE standards.

■ Input Power Cable

Appropriate Model		Model	Cable	Length	Nominal cross sectional area	Input terminal
PCR1000WE/2000WE	Single-phase two-wire input	**AC5.5-1P3M-M6C-3S**	Three single-core cables	3 m	5.5 mm^2	M6
PCR3000WE2	Single-phase two-wire input	**AC14-1P3M-M6C-3S**	Three single-core cables	3 m	14 mm^2	M6
PCR6000WE2R	Three-phase three-wire input	**AC5.5-1P3M-M5C-4S**	Four single-core cables	3 m	5.5 mm^2	M5
PCR6000WE2	Three-phase four-wire input	**AC5.5-1P3M-M5C-5S**	Five single-core cables	3 m	5.5 mm^2	M5
PCR12000WE2R	Three-phase three-wire input	**AC14-1P3M-M5C-4S**	Four single-core cables	3 m	14 mm^2	M5
PCR12000WE2	Three-phase four-wire input	**AC5.5-1P3M-M5C-5S**	Five single-core cables	3 m	5.5 mm^2	M5
PCR18000WE2R	Three-phase three-wire input	**AC22-1P3M-M8C-4S**	Four single-core cables	3 m	22 mm^2	M8
PCR18000WE2	Three-phase four-wire input	**AC8-1P3M-M5C-5S**	Five single-core cables	3 m	8 mm^2	M5
PCR24000WE2R	Three-phase three-wire input	**AC38-1P3M-M8C-4S**	Four single-core cables	3 m	38 mm^2	M8
PCR24000WE2	Three-phase four-wire input	**AC14-1P3M-M5C-5S**	Five single-core cables	3 m	14 mm^2	M5
PCR30000WE2R	Three-phase three-wire input	**AC60-1P3M-M8C-4S**	Four single-core cables	3 m	60 mm^2	M8
PCR30000WE2	Three-phase four-wire input	**AC22-1P3M-M5C-5S**	Five single-core cables	3 m	22 mm^2	M5
PCR36000WE2R	Three-phase three-wire input	**AC60-1P3M-M8C-4S**	Four single-core cables	3 m	60 mm^2	M8
PCR36000WE2	Three-phase four-wire input	**AC22-1P3M-M5C-5S**	Five single-core cables	3 m	22 mm^2	M5

■ Sequence Creation Software "Wavy"

SD032-PCR-WE (Wavy for PCR-WE)



*Screen sample

The software that further enhances the waveform generation and sequence functions of the PCR-WE/WE2 series.
Easy sequence control without programming knowledge!

Wavy is an application software that supports sequence creation and operation for Kikusui power supplies and electronic loads. Wavy allows you to create and edit sequences visually with just a mouse. Real-time graph-monitor function is equipped and enables monitoring and logging values of voltage and current. It is possible to operate the power supply with the feeling of remote control by direct control function.

Ordering Information

Part		Model	Remarks
Ultra-Compact AC/DC Programmable Power Supply (Single-phase)		**PCR1000WE**	Single phase 1 kVA
		PCR2000WE	Single phase 2 kVA
Ultra-Compact AC/DC Programmable Power Supply (Single-phase/Single-phase three-wire/Three-phase switchable model)		**PCR3000WE2**	Single phase/Three phase 3 kVA, Single phase three wire 2 kVA
		PCR6000WE2R	Single phase/Three phase 6 kVA, Single phase three wire 4 kVA
		PCR6000WE2	Single phase/Three phase 6 kVA, Single phase three wire 4 kVA
		PCR12000WE2R	Single phase/Three phase 12 kVA, Single phase three wire 8 kVA
		PCR12000WE2	Single phase/Three phase 12 kVA, Single phase three wire 8 kVA
		PCR18000WE2R	Single phase/Three phase 18 kVA, Single phase three wire 12 kVA
		PCR18000WE2	Single phase/Three phase 18 kVA, Single phase three wire 12 kVA
		PCR24000WE2R	Single phase/Three phase 24 kVA, Single phase three wire 16 kVA
		PCR24000WE2	Single phase/Three phase 24 kVA, Single phase three wire 16 kVA
		PCR30000WE2R	Single phase/Three phase 30 kVA, Single phase three wire 20 kVA
		PCR30000WE2	Single phase/Three phase 30 kVA, Single phase three wire 20 kVA
		PCR36000WE2R	Single phase/Three phase 36 kVA, Single phase three wire 24 kVA
		PCR36000WE2	Single phase/Three phase 36 kVA, Single phase three wire 24 kVA
GPIB interface board		**IB07-PCR-WE**	
External control connector		**OP01-PCR-WE**	For DIGITAL I/O
		OP02-PCR-WE	For ANALOG I/O
Input power cable	For PCR1000WE/PCR2000WE	**AC5.5-1P3M-M6C-3S**	Single core, 3 pcs. 5.5 mm^2/3 m M6
	For PCR3000WE2	**AC14-1P3M-M6C-3S**	Single core, 3 pcs. 14 mm^2/3 m M6
	For PCR6000WE2R (3P3W input)	**AC5.5-1P3M-M5C-4S**	Single core, 4 pcs. 5.5 mm^2/3 m M5
	For PCR6000WE2/PCR12000WE2 (3P4W input)	**AC5.5-1P3M-M5C-5S**	Single core, 5 pcs. 5.5 mm^2/3 m M5
	For PCR12000WE2R (3P3W input)	**AC14-1P3M-M5C-4S**	Single core, 4 pcs. 14 mm^2/3 m M5
	For PCR18000WE2R (3P3W input)	**AC22-1P3M-M8C-4S**	Single core, 4 pcs. 22 mm^2/3 m M8
	For PCR18000WE2 (3P4W input)	**AC8-1P3M-M5C-5S**	Single core, 5 pcs. 8 mm^2/3 m M5
	For PCR24000WE2R (3P3W input)	**AC38-1P3M-M8C-4S**	Single core, 4 pcs. 38 mm^2/3 m M8
	For PCR24000WE2 (3P4W input)	**AC14-1P3M-M5C-5S**	Single core, 5 pcs. 14 mm^2/3 m M5
	For PCR30000WE2R/PCR36000WE2R (3P3W input)	**AC60-1P3M-M8C-4S**	Single core, 4 pcs. 60 mm^2/3 m M8
	For PCR30000WE2/PCR36000WE2 (3P4W input)	**AC22-1P3M-M5C-5S**	Single core, 5 pcs. 22 mm^2/3 m M5
Parallel-operation cable		**PC01-PCR-WE**	1 m
Power-sync cable		**LC01-PCR-LE**	1 m
Rack mount Brakets	For PCR1000WE/PCR2000WE/PCR3000WE2	**KRB3-TOS**	EIA inch rack
		KRB150-TOS	JIS millimeter rack
	For PCR6000WE2	**KRB6**	EIA inch rack
		KRB300	JIS millimeter rack
	For PCR12000WE2	**KRB9**	EIA inch rack
		KRB400-PCR-LE	JIS millimeter rack
Base hold angles		**OP03-KRC**	For fixing PCR30000WE2/PCR36000WE2 or the rack to the floor.
Quick immunity sequencer 2		**SD009-PCR-LE/WE**	
Sequence-creation software		**SD032-PCR-WE (Wavy for PCR-WE)**	
Avionics test software		**SD012-PCR-LE/WE**	
Remote control software for the Windows tablet		**SD021-PCR-LE/WE**	

KIKUSUI

KIKUSUI ELECTRONICS CORPORATION

Southwood 4F,6-1 Chigasaki-chuo,Tsuzuki-ku,Yokohama,224-0032,Japan
Phone: (+81)45-482-6353,Facsimile: (+81)45-482-6261,www.kikusui.co.jp

KIKUSUI AMERICA, INC. 1-310-214-0000 | www.kikusuiamerica.com

3625 Del Amo Blvd, Suite 160, Torrance, CA 90503
Phone : 310-214-0000 Facsimile : 310-214-0014

KIKUSUI TRADING (SHANGHAI) Co., Ltd. | www.kikusui.cn

Room 305,Shenggao Building , No.137,Xianxia Road, Shanghai City, China
Phone : 021-5887-9067 Facsimile : 021-5887-9069

For our local sales distributors and representatives, please refer to "sales network" on our website.

Printed in Japan

Issue: Sep. 2020 202009PDFEC61a