



New Flagship Bench-top DC Power Supply



New Compact Wide Range DC Power Supply **PWR-01 Series**

A wide range of voltage and current settings can be combined within its output power rating (3 to 4 times)

LAN (LXI compliant) /USB/RS232C as standard interface

Sequence creation software : Wavy for PWR-01

All models are equipped with front output terminals as standard

Variable internal resistance function

The Bench-top

New flagship bench-top DC power supply

L, ML, MH, and H voltage types. Lineup of 12 models in total!

The PWR-01 is a series of high performance, multifunctional, compact, wide-range DC power supplies. It consists of 12 models in total with 4 maximum voltage outputs (L, ML, MH, and H) and 3 maximum power outputs (400 W, 800 W, and 1200 W). The series is equipped with LAN (LXI), USB, and RS232C as standard interfaces that are essential for system integration. The PWR-01 also features front-facing output terminals, variable internal resistance, bleeder ON/OFF functions, CC/CV priority switching function, synchronized operation, various protections, and programmable internal memory.



Lineup

40 V type

Type	Model	Voltage output	Current output	Power output
L	PWR401L	0 V to 40 V	0 A to 40 A	400 W
	PWR801L		0 A to 80 A	800 W
	PWR1201L		0 A to 120 A	1200 W

80 V type

Type	Model	Voltage output	Current output	Power output
ML	PWR401ML	0 V to 80 V	0 A to 20 A	400 W
	PWR801ML		0 A to 40 A	800 W
	PWR1201ML		0 A to 60 A	1200 W

240 V type

Type	Model	Voltage output	Current output	Power output
MH	PWR401MH	0 V to 240 V	0 A to 5 A	400 W
	PWR801MH		0 A to 10 A	800 W
	PWR1201MH		0 A to 15 A	1200 W

650 V type

Type	Model	Voltage output	Current output	Power output
H	PWR401H	0 V to 650 V	0 A to 1.85 A	400 W
	PWR801H		0 A to 3.70 A	800 W
	PWR1201H		0 A to 5.55 A	1200 W

**Actual
size**

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Universal Communication Interface Combined with Wide Range Output Coverage!

Sequence Function

Synchronized operation using trigger signals

Communication Interface

LAN (LXI compliant) /USB/RS232C as standard interface

Front Output Terminals

Equipped with front output terminal as standard *Up to 10 A

Wide Range

3 to 4 times coverage ratio for voltage and current range

Variable Internal Resistance Function

Easy simulation of power supplies carrying internal resistance made possible

Durable Performance

Operating temperature guaranteed up to 50 °C.



at 50°C
(122°F)
capable of operating
at full load
continuously

Convenient sequence
generation for the
PWR-01

Sequence Creation
Software

SD027-PWR-01
(Wavy for PWR-01)



For details,
please refer to page 15 .



1200 W model

800 W model

400 W model

■ Safe and easy to use front-facing output terminals

All models are equipped with front-facing output terminals (up to 10 A) optimized for bench-top use. Please connect to the output terminals with a safety plug. *This product's specifications were recorded using the back-side output terminals.



● Safety plugs (Options)



TL41 (screw connection type)
Red and black, one set each
1000 V/ CATII max 32 A



TL42 (solder connection type)
Red and black, one set each
1000 V/ CATII max 32 A

■ Sequence function

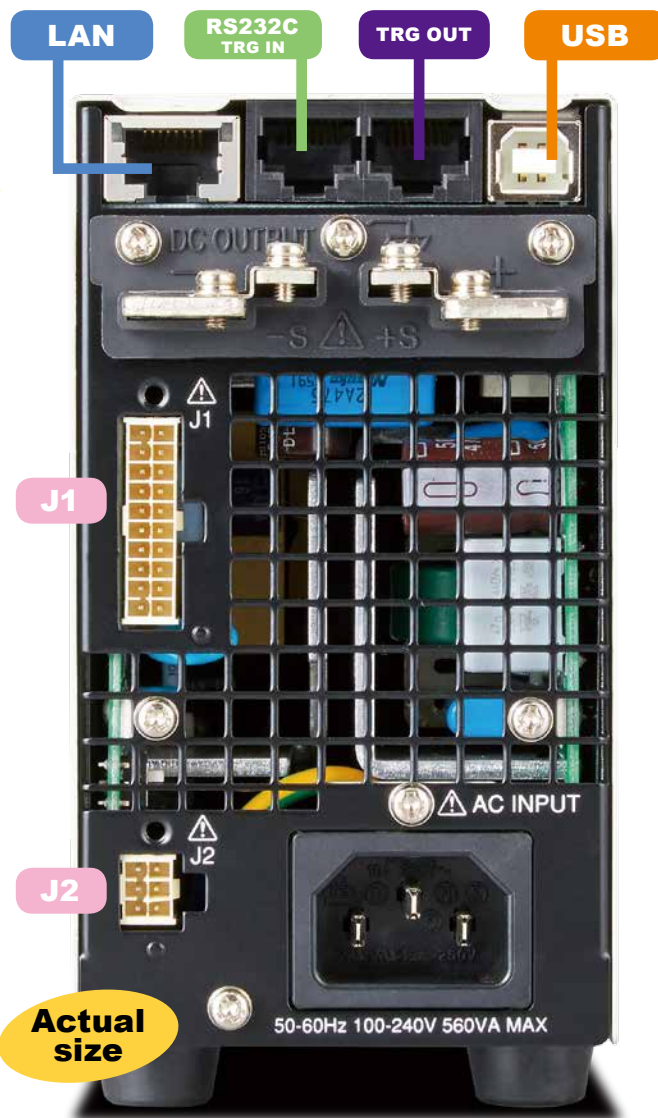
The sequence function allows you to automatically execute programs that you have set in advance one operation at a time. However, you cannot create sequences using only the panel. Sequence programs are created using commands from a PC. Once a sequence is executed via remote control, the program is saved onto the PWR-01's internal memory and then can be executed directly from the front panel without a PC.

■ Synchronized operation

Synchronized operation allows for settings and sequence programs to be synchronized via trigger signals. Different PWR-01 models (e.g., 400 W model and 800 W model) can be easily mixed and matched with no difficulties. Synchronized operation is also possible in parallel operation. In order to successfully synchronize your power supplies, please configure various settings using remote control commands. After completing configuration, synchronized operation can be performed without a PC.

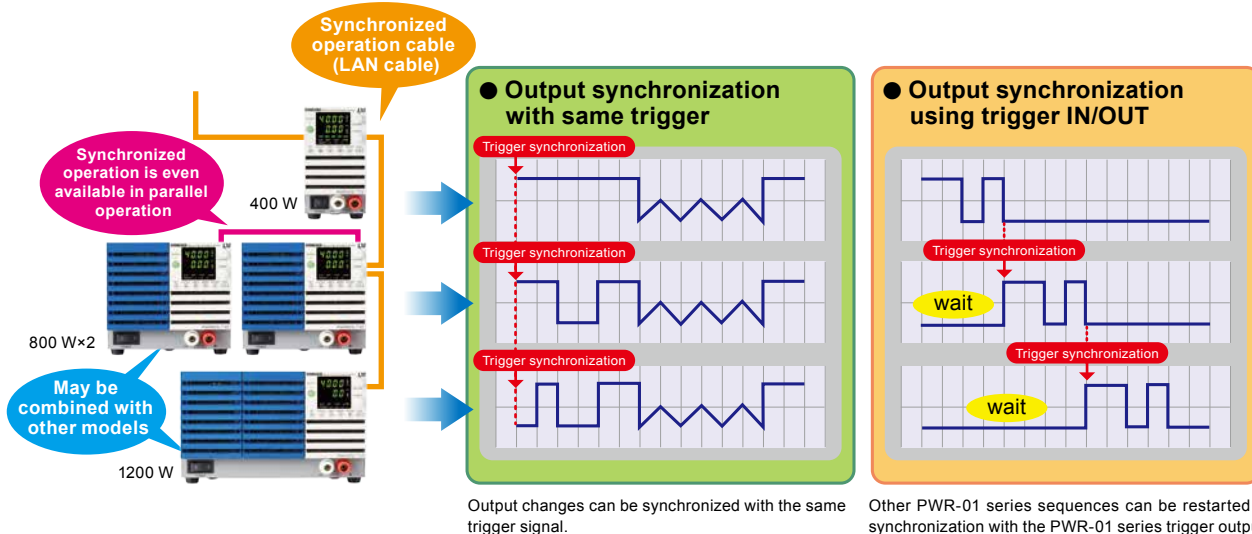
■ Standard communication interface

The series has been equipped with LAN (LXI), USB, and RS232C as standard interfaces, essential for system integration. When using RS232C, please order the D-sub 9P-RJ45 transformation cable (RD-8P/9P) option, sold separately. The PWR-01 has also been equipped with J1/J2 connectors for analog control.



Rear Panel : 400 W model

Sequence Function/Synchronized Operation Concept Map



■ Bleeder ON/OFF function

The PWR-01's capacitor is connected to its output terminals, with a bleeder circuit equipped that discharges electricity when the OUTPUT is set to OFF. For example, when a battery is connected to the output terminal, when the bleeder circuit is set to ON, the bleeder circuit will discharge electricity from the battery even when OUTPUT is OFF. In cases like these, excessive electric discharge can be prevented by setting the bleeder circuit to OFF. This makes it possible to prevent current backflow from a battery without using a diode.

Bleeder circuit	Description
Off *1	Bleeder circuit off
Normal bleeder	Bleeder circuit on
Hyper bleeder *2	When a normal bleeder is used, falling time with no load can be shortened to approximately 70% and eliminate test cycle time. This is effective for situations in which one wants to operate ON/OFF with capacitive load as quickly as possible.

*1. Even if the output terminals are open and the output is turned off or the voltage setting is at 0 V, up to several hundred millivolts of voltage may appear across the output terminals.

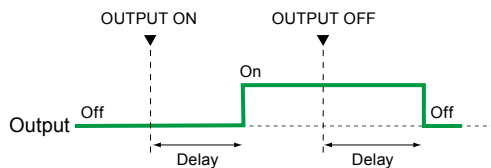
*2. The fan speed is fixed to the maximum speed.

■ Customizable startup when turning on output

You can choose the priority operation mode (CC priority/CV priority) when the output is turned ON. This can prevent overshoot when turning on the output.

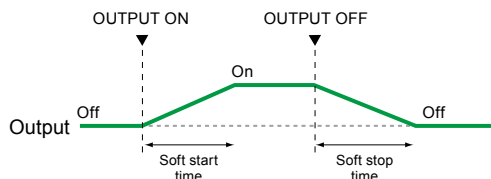
■ Output ON/OFF delay function

You can set the delay (DELAY TIME) from when the OUTPUT key is turned on or off to when the output actually turns on or off. This is useful for tests where precise timing/order of rise and drop voltage is essential according to the load characteristics.



■ Soft start/stop function

You can set the rise time and fall time of output current. This is useful when the load cannot follow the sudden rise or fall in the output current or when you want to avoid the overcurrent protection from being activated.



■ Master-slave parallel operation

One-control parallel operation is performed by designating one "master" device and connecting it to one or more of the same models being the "slave" devices. The entire system can then be controlled by operating the master machine. Output current can be greatly amplified (maximum output current: single rated output current x number of parallel units) with one-control parallel operation. The maximum number of parallel units including the master device is 3 units for the 400 W and 800 W models and 2 units for the 1200 W models. Differences in output voltage and output current between the master and slave devices are within approximately 5% of their respective rated output.

■ Series operation

Up to two units can be connected in series (excluding the H type). The total combined output voltage of the two units is applied to the load. The voltage setting accuracy is the same as the accuracy of an individual unit. *You cannot perform master-slave configuration in series operation.

■ Preset memory function

The preset memory function of the PWR-01 allows you to save up to three combinations of each of the voltage, current, OVP, OCP and UVL values. The saved preset values can be recalled from the preset memory found on the front panel.

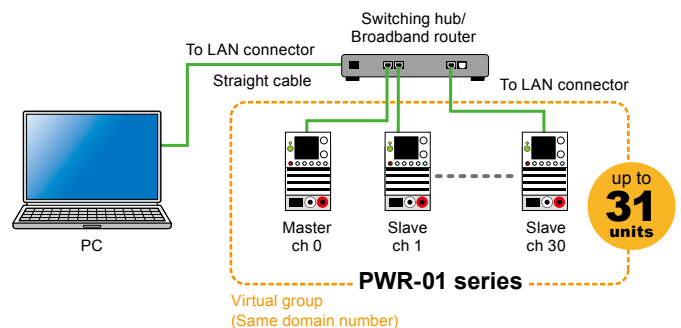
■ CONFIG setting shortcut function

You can register CONFIG setting parameters to the front panel's SC keys. You can perform tests efficiently by registering CONFIG parameters that you use frequently without consulting the CONFIG menu. Up to three parameters can be registered.

■ Multi-channel (VMCB) * *virtual multi-channel bus (VMCB)

When multi-channel (VMCB) is used, one personal computer can be connected to multiple PWR-01 series machines (up to 31 units) to construct a virtual multi-channel power source system. This is effective for matching the control timing of multiple PWR-01 series units and for saving communication ports.

● Basic configuration with LAN interface and VMCB (example)



■ Easy access with a built-in web server

Use a browser from a PC, smartphone, or tablet to access the web server built into the PWR-01 series for convenient control and monitoring.

[Recommended browser]

- Requires for the Internet Explorer version 9.0 or later
- Requires for the firefox 8.0 or later
- Requires for the safari/mobile Safari 5.1 or later
- Requires for the Chrome 15.0 or later
- Requires for the Opera 11.0 or later

* Connecting with a smartphone, tablet, etc. requires a Wi-Fi environment (wireless LAN router etc.).



*Screen sample

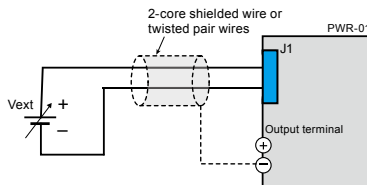
External analog control function

The PWR-01 series is equipped with external voltage/resistance control, which is necessary for external analog control and monitoring applications for power supply testing. The input external signal and the output status signal can be accessed through the J1/J2 connectors on the rear panel. When using the J1/J2, please purchase the J1/J2 connector plug kit (OP01-PWR-01) option, sold separately.

Controlling the output voltage & output current.

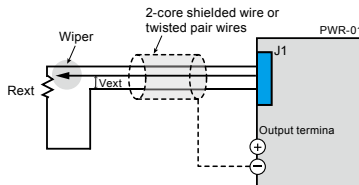
Control using an external voltage.

It is possible to control the output voltage/output current of the PWR-01 series by using an external voltage.



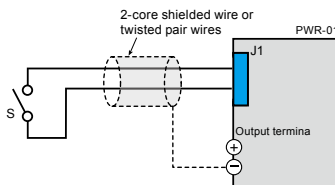
Control using an external resistance.

It is possible to control the output voltage/output current of the PWR-01 series by using an external variable resistor.



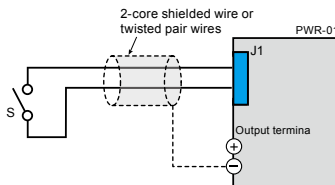
Turning output on and off using an external contact.

It is possible to turn the output ON/OFF of the PWR-01 series by using an external contact.



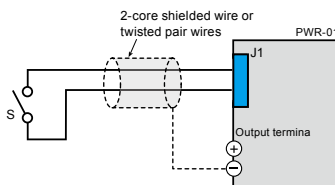
Output shutdown control using an external contact.

It is possible to turn the output OFF of the PWR-01 series by using an external contact.



Clearing alarms using an external contact.

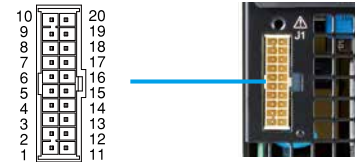
It is possible to clear the alarm of the PWR-01 series by using an external contact.



Monitoring operation modes.

External monitoring of the output voltage and output current.

J1 connector pin arrangement



Pin No.	Signal name	Description
J1-1	VPGM	Terminal used to control the output voltage with an external voltage or external resistance. 0 V to 5 V; 0 % to 100 % of the rated output voltage (CF12: LO). 0 V to 10 V; 0 % to 100 % of the rated output voltage (CF12: HI).
J1-2	VMON	Output voltage monitor. 0 % to 100 % of the rated output voltage is generated as a voltage between 0 V and 5 V (CF13: LO) or a voltage between 0 V and 10 V (CF13: HI).
J1-3	REF OUT	Reference voltage for external resistance control. 5.25 V (CF12: LO) / 10.5 V (CF12: HI), maximum output current: 2.5 mA.
J1-4	PRL ON	On when parallel operation is in use and when output is on (output through an open-collector photo-coupler)
J1-5	A GND	External signal common for pins 1 to 3, 6 to 9, 11, 12, 14, 16, and 20. When remote sensing is not used, this is at the same electric potential as the negative output terminal. When remote sensing is used, this is at the same electric potential as the negative electrode (-S) of sensing input.
J1-6	ALM CLEAR	Alarm clear terminal. Alarms are cleared when a low level signal (0 V to 0.5 V) is received or shorted.
J1-7	I SUM	Current output terminal for parallel operation.
J1-8	PRL OUT	Positive output terminal for parallel operation.
J1-9	PRL COMP IN	Correction signal input terminal for parallel operation.
J1-10	A GND	External signal common for pins 1 to 3, 6 to 9, 11, 12, 14, 16, and 20. When remote sensing is not used, this is at the same electric potential as the negative output terminal. When remote sensing is used, this is at the same electric potential as the negative electrode (-S) of sensing input.
J1-11	IPGM	Terminal used to control the output current with an external voltage or external resistance. 0 V to 5 V; 0 % to 100 % of the rated output current (CF12: LO). 0 V to 10 V; 0 % to 100 % of the rated output current (CF12: HI).
J1-12	IMON	Output current monitor. 0 % to 100 % of the rated output current is generated as a voltage between 0 V and 5 V (CF13: LO) or a voltage between 0 V and 10 V (CF13: HI).
J1-13	PRL COM	Common for pin 4.
J1-14	PRL ALM	On when a protection function is activated during parallel operation or when an output shutdown signal is being received.
J1-15	A GND	External signal common for pins 1 to 3, 6 to 9, 11, 12, 14, 16, and 20. When remote sensing is not used, this is at the same electric potential as the negative output terminal. When remote sensing is used, this is at the same electric potential as the negative electrode (-S) of sensing input.
J1-16	SHUT DOWN	Output shutdown control terminal. The output is turned off when set to LOW (0 V to 0.5 V) or shorted.
J1-17	OUTPUT CONT	Output on/off terminal. On when set to LOW (0 V to 0.5 V) or shorted; off when set to HIGH (4.5 V or 5 V) or open (CF15: LO) On when set to HIGH (4.5 V to 5 V) or open; off when set to LOW (0 V or 0.5 V) or shorted (CF15: HI)
J1-18	PRL COMP OUT	Correction signal output terminal for parallel operation.
J1-19	PRL IN-	Negative input terminal for parallel operation.
J1-20	PRL IN+	Positive input terminal for parallel operation.

J2 connector pin arrangement



Pin No.	Signal name	Description
J2-1	STATUS COM	Common for pins 2 to 6. *1
J2-2	OUT ON STATUS	Outputs a signal when output is on (output through an open-collector photocoupler). *2
J2-3	PWR ON STATUS	Outputs a low level signal when the power is on (output through an open-collector photocoupler). *2
J2-4	ALM STATUS	Outputs a signal when a protection function (OVP, OCP, FOC, OHP, SENSE, AC-FAIL) is activated or when an output shutdown signal is being received (output through an open-collector photocoupler). *2
J2-5	CV STATUS	Outputs a signal during CV mode (output through an open-collector photocoupler) *2
J2-6	CC STATUS	Outputs a signal during CC mode (output through an open-collector photocoupler). *2

*1. The status common is floating (isolation voltage of 800 V or less). It is isolated from the control circuit.
*2. Open collector output: Maximum voltage: 30 V. Maximum current: 8 mA.

J1 and J2 connectors

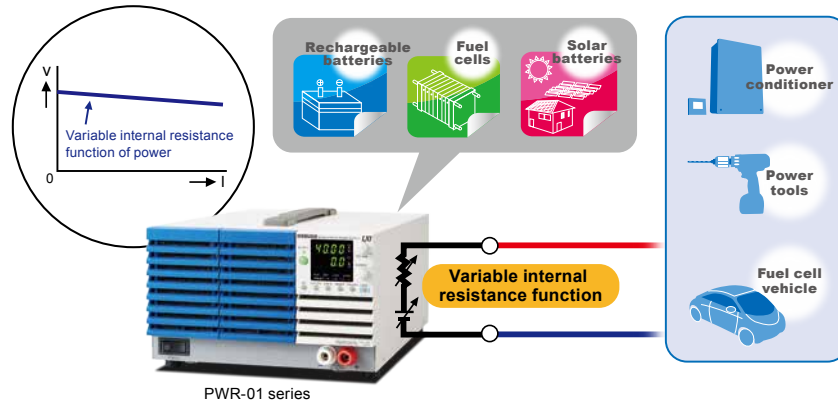
	J1 connector	J2 connector
Connector type	WF2549-2WR10S3T01 (WCON)	WF2549-2WR03S3T01(WCON)
Housing type	WF2549-2H10W01 (WCON)	WF2549-2H03W01 (WCON)
Terminal (pin)	WF2549-TPS302 (WCON)	WF2549-TPS302 (WCON)
Wire diameter (core wire)	AWG20 to AWG24	AWG20 to AWG24
Manual pressure welding tool	SN-28B (IWISS) or an equivalent product	SN-28B (IWISS) or an equivalent product

CONFIG setting is easy for ON/OFF settings with external contact points that can be easily accessed from the front panel.



Variable internal resistance function

The variable internal resistance function enables you to easily simulate the internal resistance of rechargeable batteries, solar batteries, fuel cells, and the like. By setting the internal resistance value in constant voltage (CV) mode, you can decrease the output voltage according to the output current. You can use a CONFIG setting to set the internal resistance.



	PWR401L	PWR401ML	PWR401MH	PWR401H
Vrtg [V]	40	80	240	650
Irtg [A]	40	20	5	1.85
Rint [Ω]	0.001 to 1.000	0.001 to 4.000	0.01 to 36.00	0.1 to 263.5
Resolution*1	0.001	0.001	0.01	0.1
	PWR801L	PWR801ML	PWR801MH	PWR801H
Vrtg [V]	40	80	240	650
Irtg [A]	80	40	10	3.7
Rint [Ω]	0.001 to 0.500	0.001 to 2.000	0.01 to 18.00	0.1 to 131.8
Resolution*1	0.001	0.001	0.01	0.1
	PWR1201L	PWR1201ML	PWR1201MH	PWR1201H
Vrtg [V]	40	80	240	650
Irtg [A]	120	60	15	5.55
Rint [Ω]	0.001 to 0.333	0.001 to 1.333	0.01 to 12.00	0.1 to 87.84
Resolution*1	0.001	0.001	0.01	0.01

Setting range

Vrtg	rated output voltage
Irtg	rated output current
Rint	internal resistance

$0 < Rint (\min) \leq Rint (\max)$

L type, ML type: $Rint (\max) = Vrtg / Irtg$

MH type, H type: $Rint (\max) = Vrtg / Irtg \times 3/4$

The variable internal resistance function can be configured only in constant voltage (CV) mode.

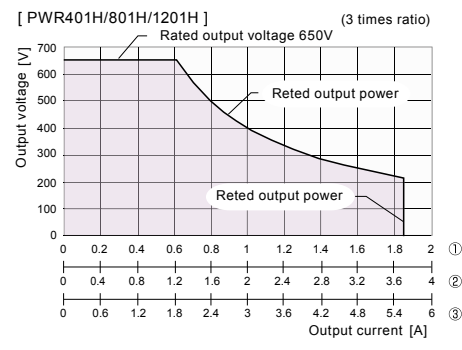
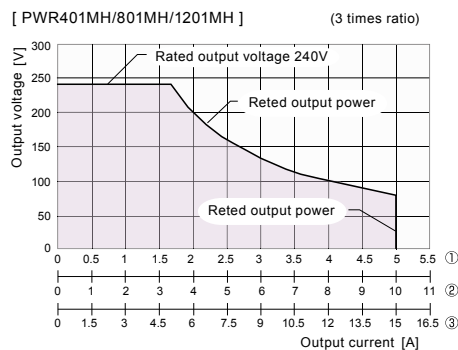
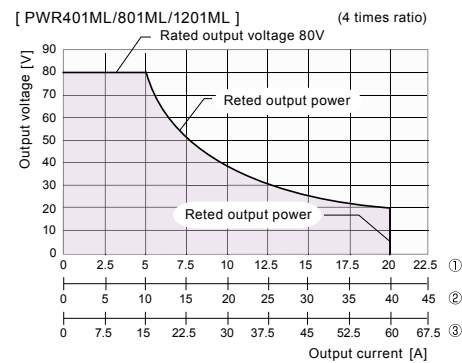
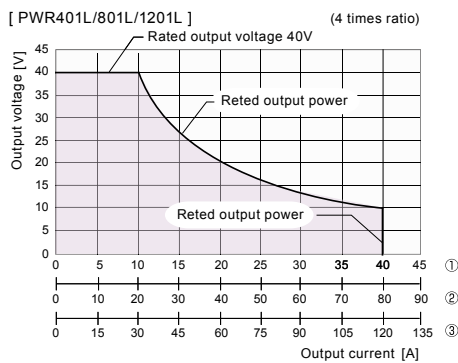
*1. Resolution when FINE is in use

The maximum internal resistance that can be set during parallel operation is the value obtained by dividing $Rint (\max)$ during standalone operation by the number of units in parallel operation. The resolution is the value obtained by dividing the resolution during standalone operation by the number of units in parallel operation.

3 to 4 times ratio power operation

3 to 4 times ratio power operating range covers a wide variety of voltage and current setting combinations.

For example, the 1200 W rated power output PWR1201ML is capable of seamless operation from 80 V/15 A to 20 V/60 A.



① 400W ② 800W ③ 1200W

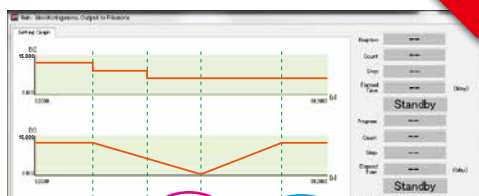
KIKUSUI ADAS (Advanced Driver Assistance) Car Electronics Evolved for Autonomous Driving

Optimal KIKUSUI Product Lineup for ADAS Product Development

Automated driving technology undergoes screening by the ISO/TC204 in compliance with international standards. Aging tests for driving control systems of onboard electric components, power voltage variation tests and load change tests etc. are performed to make a DC power source and DC power load into a system that can be controlled by multiple channels depending on the needs of each.

For aging tests...

Our DC power supply lineup can be used in a wide range of situations, including as an alternative power source to batteries or for aging tests of ECUs, onboard electronic components or driving power sources for sensors. Moreover, the sequence creation software Wavy Series can be used to create simple simulations such as actuator or sensor operations and for the rise/fall of power supplies in multiple channels.



Multi-channel control possible

NEW

Compact Wide Range DC Power Supply PWR-01 series

- Equipped with front output terminals as standard.
*Up to 10 A
- A wide range of voltage and current settings can be combined within its output power rating.
(3 to 4 times)
- LAN (LXI compliant) /USB/RS232C as standard interface.
- A virtual multi-channel bus (VMCB) function makes multi-channel operation more efficient.



Variable internal resistance function

Sequence function
Synchronized operation using trigger signals



Max. 500 V Output Rating

Low-noise



Maximum power output 8 kW

Power factor 0.95

High-Efficiency, Large-Capacity Switching Power Supply PAT-T series

- Output capacity of 8 kW from a unit of standard rack width(430 mm), a height of about 130 mm(3U), and a depth of about 550 mm.
- Continuous operation capable under full load even with an ambient temperature of 50°C.
- High noise resistance.

Compact DC Power Supply PMX-A series

- Series regulator system with excellent noise performance
- High setting resolution - Voltage: 1 mV, Current: 0.1 mA
- LAN(LXI compliant)/USB/RS232C as standard interface
- External analog remote control
- Monitoring and status signal output
- CV, CC priority start function
(to prevent overshoot when the output is ON)
- Remote sensing function (18V, 35V models)
- Key lock, 3-point preset memory function

PAT-T Smart Rack System

Large current model



● Main onboard electric components

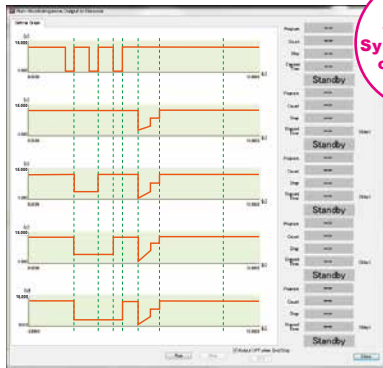
Lane Keeping System (LKS), Adaptive Cruise Control (ACC), Autonomous Emergency Braking (AEB), Traffic Sign Recognition (TSR), millimeter wave radar, infrared laser, camera, car navigation, night vision, ultrasound sensor, Data Communication Module (DCM), various displays etc.

istance System) Solutions Automated Driving Testing and Evaluation

For power voltage variation tests...

Our bipolar power source PBZ series simulates various power sources such as +B, ACC, IG and ILL from batteries to test onboard electric components (driving environment recognition products, information transmission products, HMI products etc.). Superior synchronization and sequence functions can be used for power voltage variation testing of onboard devices.

Arbitrary waveform construction functions make it possible to recreate actual onboard measured waveforms and can be used for a wide range of situations including error analysis and margin testing. In addition, low ripple noise makes it possible to recreate highly precise waveforms.



Trigger and Clock
Synchronized operation function

High-speed response
100 kHz (CV)

Low ripple noise!

Multi-channel synchronized operation possible



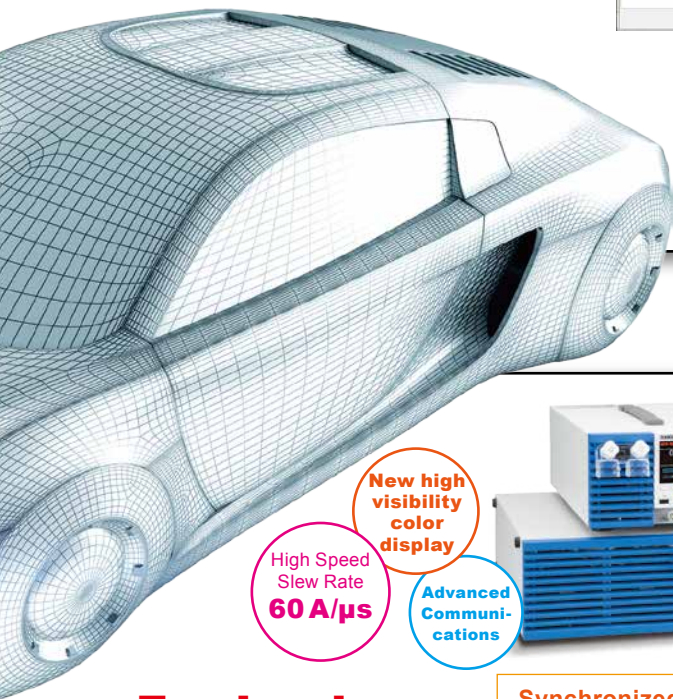
Intelligent Bipolar Power Supply **PBZ series**

- User-defined waveform generation function
- Sequence function
- Synchronized operation function
- Parallel operation function

PBZ SR series

Large current model

Multi-channel synchronized operation possible



New high visibility color display

High Speed Slew Rate
60 A/μs

Advanced Communications



Multifunctional Electronic Load **PLZ-5W series**

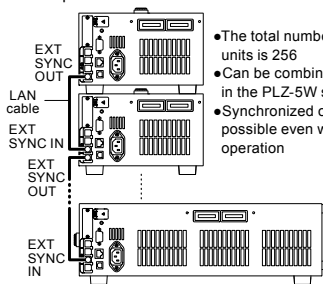
- Operation Voltage : 1 V to 150 V (from 0.05 V)
- Arbitrary I-V characteristics : Installed "ARB mode"
- Parallel Operation Feature : The total current and power capacity can be increased to a maximum of 10.8 kW (2160 A) by connecting booster units.
- Various Communication Interfaces : LAN (LXI compliant), USB, RS232C, GPIB (Option), External Analog Control
- Improved Sequence Feature (Maximum 10000 steps)

For load change test...

Our multi-function DC electronic load, the PLZ-5W series, can be used as an alternative for onboard products. Various load current patterns can be used to evaluate and test ECU and onboard electronic components. The PLZ-5W series sequence function, synchronized driving function and sequence creation software Wavy can be used to easily create various load patterns such as sudden load changes.

Synchronized operation possible with just a LAN connection

- Synchronization of the load ON/OFF of multiple units
- Synchronization of sequence start/pause release of multiple units



- The total number of connected units is 256
- Can be combined with models in the PLZ-5W series
- Synchronized operation is possible even with parallel operation

PLZ-5W SR series

Large-Scale System



● 400 W model

Item/Model		PWR401L	PWR401ML	PWR401MH	PWR401H
AC input					
Nominal input rating		100 Vac to 240 Vac, 50 Hz to 60 Hz, single phase			
Input voltage range		85 Vac to 265 Vac			
Input frequency range		47 Hz to 63 Hz			
Current (TYP) *1	100 Vac	5.6 A			
	200 Vac	2.8 A			
Inrush current (MAX) *2		25 Apeak or less			
Power (MAX) *3		560 VA			
Power factor (TYP) *1		0.99 (input voltage: 100 V), 0.97 (input voltage: 200 V)			
Efficiency (MIN) *1		75 % (TYP)			
Hold-up time for power interruption (MIN) *3		20 ms or more			

*1. At the rated output power for the rated output current.

*2. Excludes the charge current component that flows through the capacitor of the internal EMC filter circuit immediately after the POWER switch is turned on (for approximately 1 ms).

*3. 100 Vac, at the rated output power.

Item/Model		PWR401L	PWR401ML	PWR401MH	PWR401H	
Output						
Rating	Output voltage *1	40 V	80 V	240 V	650 V	
	Output current *1	40 A	20 A	5 A	1.85 A	
	Output power	400 W				
Voltage	Maximum settable voltage *2	42 V	84 V	252 V	682.5 V	
	Setting accuracy	± (0.05 % of set +0.05 % of rating)				
	Resolution	200 mV	400 mV	1000 mV	2500 mV	
	Using FINE, OUT OFF	10 mV	10 mV	100 mV	100 mV	
	Using FINE, OUT ON	1 mV	1 mV	10 mV	10 mV	
	When using a communication interface	1 mV	1 mV	10 mV	10 mV	
	Line regulation *3	±6 mV	±10 mV	±26 mV	±67 mV	
	Load regulation *4	±6 mV	±10 mV	±26 mV	±67 mV	
	Transient response *5	1 ms or less	2 ms or less	2 ms or less	3 ms or less	
	Ripple noise *6	p-p *7	50 mV	50 mV	100 mV	300 mV
		rms *8	5 mV	5 mV	20 mV	50 mV
	Rise time	At full load	50 ms or less		100 ms or less	
		No load	50 ms or less		100 ms or less	
	Fall time *9	At full load	50 ms or less		150 ms	250 ms
		No load	500 ms or less		1200 ms	2000 ms
Maximum remote sensing compensation voltage (single line)		1.5 V	4 V	5 V	5 V	
Temperature coefficient *10		100 ppm/°C				
Current	Maximum settable current *2	42 A	21 A	5.25 A	1.9425 A	
	Setting accuracy *11	± (0.5 % of set +0.1 % of rating)				
	Resolution	200 mA	100 mA	20 mA	10 mA	
	Using FINE, OUT OFF	10 mA	10 mA	1 mA	1 mA	
	Using FINE, OUT ON	1 mA	1 mA	0.1 mA	0.1 mA	
	When using a communication interface	1 mA	1 mA	0.1 mA	0.1 mA	
	Line regulation	±6 mA	±4 mA	±2.5 mA	±2.2 mA	
	Load regulation	±13 mA	±9 mA	±6.0 mA	±5.4 mA	
	Ripple noise *12	rms *8	80 mA	40 mA	12 mA	6 mA
	Rise time (TYP)	At full load	50 ms		100 ms	
	Fall time (TYP)	At full load	50 ms		100 ms	
	Temperature coefficient *10		100 ppm/°C			
	Maximum internal resistance that can be set		1.000 Ω	4.000 Ω	36.00 Ω	263.5 Ω

*1. The maximum output voltage and maximum output current are limited by the maximum output power.

*2. Can be limited to approximately 95 % of the OVP trip point or OCP trip point.

*3. 85 Vac to 135 Vac or 170 Vac to 265 Vac, fixed load

*4. The amount of change that occurs when the load is changed from no load to full load (rated output power/rated output voltage) with rated output voltage. The value is measured at the sensing point.

*5. The amount of time required for the output voltage to return to a value within "rated output voltage ± (0.1 % +10 mV)." The load current fluctuation is 50 % to 100 % of the maximum current with the set output voltage.

*6. Measured using an RC-9131C probe that conforms to the JEITA specifications. At the rated output current.

*7. When the measurement frequency bandwidth is 10 Hz to 20 MHz.

*8. When the measurement frequency bandwidth is 10 Hz to 1 MHz.

*9. When the bleeder circuit is set to bleeder normal.

*10. When the ambient temperature is within 0°C and 50 °C

*11. Applies to the range of 1 % to 100 % of the rated current. TYP (0.1 % of rating) for 0 % to 1 %.

*12. When the output voltage is 10 % to 100 % of the rating. At the rated output current.

Item/Model		PWR401L	PWR401ML	PWR401MH	PWR401H
Display function					
Voltage display	Maximum display	99.99		999.9	
	Display accuracy	± (0.2 % of reading + 5 digit)			
Current display	Maximum display	99.99		9.999	
	Display accuracy	± (0.5 % of reading + 8 digit)			
Power display		The PWR DSPL LED lights in red.			
	Maximum display	9999			
	Display accuracy	Displays the result of multiplying the current and voltage. The display is toggled with the voltage or current display.			



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● 800 W model

Item/Model		PWR801L	PWR801ML	PWR801MH	PWR801H
AC input					
Nominal input rating		100 Vac to 240 Vac, 50 Hz to 60 Hz, single phase			
Input voltage range		85 Vac to 265 Vac			
Input frequency range		47 Hz to 63 Hz			
Current (TYP) *1	100 Vac	11.2 A			
	200 Vac	5.6 A			
Inrush current (MAX) *2		50 Apeak or less			
Power (MAX) *3		1120 VA			
Power factor (TYP) *1		0.99 (input voltage: 100 V), 0.97 (input voltage: 200 V)			
Efficiency (MIN) *1		75 % (TYP)			
Hold-up time for power interruption (MIN) *3		20 ms or more			

*1. At the rated output power for the rated output current.

*2. Excludes the charge current component that flows through the capacitor of the internal EMC filter circuit immediately after the POWER switch is turned on (for approximately 1 ms).

*3. 100 Vac, at the rated output power.

Item/Model		PWR801L	PWR801ML	PWR801MH	PWR801H	
Output						
Rating	Output voltage *1	40 V	80 V	240 V	650 V	
	Output current *1	80 A	40 A	10 A	3.70 A	
	Output power	800 W				
Voltage	Maximum settable voltage *2	42 V	84 V	252 V	682.5 V	
	Setting accuracy	± (0.05 % of set +0.05 % of rating)				
	Resolution	200 mV	400 mV	1000 mV	2500 mV	
	Using FINE, OUT OFF	10 mV	10 mV	100 mV	100 mV	
	Using FINE, OUT ON	1 mV	1 mV	10 mV	10 mV	
	When using a communication interface	1 mV	1 mV	10 mV	10 mV	
	Line regulation *3	±6 mV	±10 mV	±26 mV	±67 mV	
	Load regulation *4	±6 mV	±10 mV	±26 mV	±67 mV	
	Transient response *5	1 ms or less	2 ms or less	2 ms or less	3 ms or less	
	Ripple noise *6	p-p *7	50 mV	50 mV	100 mV	300 mV
		rms *8	5 mV	5 mV	20 mV	50 mV
	Rise time	At full load	50 ms or less		100 ms or less	
		No load	50 ms or less		100 ms or less	
	Fall time *9	At full load	50 ms or less		150 ms	250 ms
		No load	500 ms or less		1200 ms	2000 ms
Maximum remote sensing compensation voltage (single line)	1.5 V	4 V	5 V	5 V		
Temperature coefficient *10	100 ppm/°C					
Current	Maximum settable current *2	84 A	42 A	10.5 A	3.885 A	
	Setting accuracy *11	± (0.5 % of set +0.1 % of rating)				
	Resolution	400 mA	200 mA	40 mA	20 mA	
	Using FINE, OUT OFF	10 mA	10 mA	10mA	1 mA	
	Using FINE, OUT ON	1 mA	1 mA	0.1 mA	0.1 mA	
	When using a communication interface	1 mA	1 mA	0.1 mA	0.1 mA	
	Line regulation	±10 mA	±6 mA	±3 mA	±2.4 mA	
	Load regulation	±21 mA	±13 mA	±7 mA	±5.7 mA	
	Ripple noise *12	160 mA	80 mA	24 mA	12 mA	
	Rise time (TYP)	At full load	50 ms		100 ms	
		At full load	50 ms		100 ms	
	Temperature coefficient *10	100 ppm/°C				
Maximum internal resistance that can be set		0.500 Ω	2.000 Ω	18.00 Ω	131.8 Ω	

*1. The maximum output voltage and maximum output current are limited by the maximum output power.

*2. Can be limited to approximately 95 % of the OVP trip point or OCP trip point.

*3. 85 Vac to 135 Vac or 170 Vac to 265 Vac, fixed load

*4. The amount of change that occurs when the load is changed from no load to full load (rated output power/rated output voltage) with rated output voltage. The value is measured at the sensing point.

*5. The amount of time required for the output voltage to return to a value within "rated output voltage ± (0.1 % + 10 mV)." The load current fluctuation is 50 % to 100 % of the maximum current with the set output voltage.

*6. Measured using an RC-9131C probe that conforms to the JEITA specifications. At the rated output current.

*7. When the measurement frequency bandwidth is 10 Hz to 20 MHz.

*8. When the measurement frequency bandwidth is 10 Hz to 1 MHz.

*9. When the bleeder circuit is set to bleeder normal.

*10. When the ambient temperature is within 0°C and 50 °C

*11. Applies to the range of 1 % to 100 % of the rated current. TYP (0.1 % of rating) for 0 % to 1 %.

*12. When the output voltage is 10 % to 100 % of the rating. At the rated output current.

Item/Model		PWR801L	PWR801ML	PWR801MH	PWR801H
Display function					
Voltage display	Maximum display	99.99		999.9	
	Display accuracy	± (0.2 % of reading + 5 digit)			
Current display	Maximum display	99.99			9.999
	Display accuracy	± (0.5 % of reading + 8 digit)			
Power display		The PWR DSPL LED lights in red.			
	Maximum display	9999			
	Display accuracy	Displays the result of multiplying the current and voltage. The display is toggled with the voltage or current display.			

● 1200 W model

Item/Model	PWR1201L	PWR1201ML	PWR1201MH	PWR1201H
AC input				
Nominal input rating		100 Vac to 240 Vac, 50 Hz to 60 Hz, single phase		
Input voltage range		85 Vac to 265 Vac		
Input frequency range		47 Hz to 63 Hz		
Current (TYP) *1	100 Vac	16.8 A		
	200 Vac	8.4 A		
Inrush current (MAX) *2		75 Apeak or less		
Power (MAX) *3		1680 VA		
Power factor (TYP) *1		0.99 (input voltage: 100 V), 0.97 (input voltage: 200 V)		
Efficiency (MIN) *1		75 % (TYP)		
Hold-up time for power interruption (MIN) *3		20 ms or more		

*1. At the rated output power for the rated output current.

*2. Excludes the charge current component that flows through the capacitor of the internal EMC filter circuit immediately after the POWER switch is turned on (for approximately 1 ms).

*3. 100 Vac, at the rated output power.

Item/Model	PWR1201L	PWR1201ML	PWR1201MH	PWR1201H
Output				
Rating	Output voltage *1	40 V	80 V	240 V
	Output current *1	120 A	60 A	15.0 A
Voltage	Output power	1200 W		
	Maximum settable voltage *2	42 V	84 V	252 V
	Setting accuracy	± (0.05 % of set +0.05 % of rating)		
	Resolution	200 mV	400 mV	1000 mV
		Using FINE, OUT OFF	10 mV	100 mV
		Using FINE, OUT ON	1 mV	10 mV
		When using a communication interface	1 mV	10 mV
	Line regulation *3	±6 mV	±10 mV	±26 mV
	Load regulation *4	±6 mV	±10 mV	±26 mV
	Transient response *5	1 ms or less	2 ms or less	3 ms or less
	Ripple noise *6	p-p *7	50 mV	100 mV
		rms *8	5 mV	20 mV
	Rise time	At full load	50 ms or less	100 ms or less
		No load	50 ms or less	100 ms or less
	Fall time *9	At full load	50 ms or less	150 ms
		No load	500 ms or less	1200 ms
Current	Maximum remote sensing compensation voltage (single line)	1.5 V	4 V	5 V
	Temperature coefficient *10	100 ppm/°C		
	Maximum settable current *2	126 A	63 A	15.75 A
	Setting accuracy *11	± (0.5 % of set +0.1 % of rating)		
	Resolution	600 mA	300 mA	60 mA
		Using FINE, OUT OFF	100 mA	10 mA
		Using FINE, OUT ON	10 mA	1 mA
		When using a communication interface	10 mA	1 mA
	Line regulation	±14 mA	±8 mA	±3.5 mA
	Load regulation	±29 mA	±17 mA	±8.0 mA
	Ripple noise *12	240 mA	120 mA	36 mA
	Rise time (TYP)	At full load	50 ms	100 ms
		At full load	50 ms	100 ms
	Fall time (TYP)	At full load	50 ms	100 ms
	Temperature coefficient *10	100 ppm/°C		
	Maximum internal resistance that can be set	0.333 Ω	1.333 Ω	12.00 Ω

*1. The maximum output voltage and maximum output current are limited by the maximum output power.

*2. Can be limited to approximately 95 % of the OVP trip point or OCP trip point.

*3. 85 Vac to 135 Vac or 170 Vac to 265 Vac, fixed load

*4. The amount of change that occurs when the load is changed from no load to full load (rated output power/rated output voltage) with rated output voltage. The value is measured at the sensing point.

*5. The amount of time required for the output voltage to return to a value within "rated output voltage ± (0.1 % +10 mV)." The load current fluctuation is 50 % to 100 % of the maximum current with the set output voltage.

*6. Measured using an RC-9131C probe that conforms to the JEITA specifications. At the rated output current.

*7. When the measurement frequency bandwidth is 10 Hz to 20 MHz.

*8. When the measurement frequency bandwidth is 10 Hz to 1 MHz.

*9. When the bleeder circuit is set to bleeder normal.

*10. When the ambient temperature is within 0°C and 50 °C

*11. Applies to the range of 1 % to 100 % of the rated current. TYP (0.1 % of rating) for 0 % to 1 %.

*12. When the output voltage is 10 % to 100 % of the rating. At the rated output current.

Item/Model		PWR1201L	PWR1201ML	PWR1201MH	PWR1201H
Display function					
Voltage display	Maximum display	99.99		999.9	
	Display accuracy	± (0.2 % of reading + 5 digit)			
Current display	Maximum display	999.9	99.99		9.999
	Display accuracy	± (0.5 % of reading + 8 digit)			
Power display		The PWR DSPL LED lights in red.			
	Maximum display	9999			
	Display accuracy	Displays the result of multiplying the current and voltage. The display is toggled with the voltage or current display.			

● Common specifications

Item/Model	400 W model	800 W model	1200 W model
Protection functions			
Overvoltage protection (OVP)	Setting range	Turns the output off, displays OVP, and lights ALM	
	Setting accuracy	10 % to 112 % of the rated output voltage	
Overcurrent protection (OCP) *1	Setting range	± (1.5 % of rating)	
	Setting accuracy	Turns the output off, displays OCP, and lights ALM	
Front-panel output terminal overcurrent protection (FOCP)*2	Setting range	10 % to 112 % of the rated output current	
	Value (fixed)	± (3 % of rating)	
Undervoltage limit (UVL)	Setting range	Turns the output off, displays FOCP, and lights ALM	
Overheat protection (OHP)	Setting range	11 A (TYP)	
Incorrect sensing connection protection (SENSE)	Setting range	Cannot be set to a value less than or equal to the set voltage	
Low AC input protection (AC-FAIL)	Setting range	0 % to 105 % of the rated output voltage	
Shutdown (SD)	Setting range	Turns the output off, displays OHP, and lights ALM	
Power limit (POWER LIMIT)	Setting range	Turns the output off, displays SENS, and lights ALM	
Communication monitoring (watchdog)	Setting range	Turns the output off,*3 displays AC, and lights ALM	
	Value (fixed)	ALM blinking	
Master-slave parallel operation protection (PRL ALM)	Setting range	Approx. 105% of the rated output power	
Master-slave parallel operation protection (PRL ALM)	Setting range	Turns the output off, displays WDOG, and lights ALM	
	Value (fixed)	Turns the output off, displays PRL, and lights ALM	

*1. This does not protect against the discharge current peak that is generated from the capacitors inside the PWR-01 output section when the load is changed suddenly.

*2. Available on models with a maximum settable current of 11 A or more. If the OCP value is less than the FOCP value, the OCP value takes precedence.

*3. Auto recovery after eliminating the cause of the alarm is selectable.

Item/Model	400 W model	800 W model	1200 W model
Signal output and input			
Monitor signal output	Voltage monitor (VMON)	Selectable monitor voltage range: 0 V to 5 V or 0 V to 10 V	
	Setting accuracy	2.5 % of f.s. *1	
	Current monitor (IMON)	Selectable monitor voltage range: 0 V to 5 V or 0 V to 10 V	
	Setting accuracy	2.5 % of f.s. *1	
Status signal output *2	OUTON STATUS	On when output is on.	
	CV STATUS	Turns on during CV operation	
	CC STATUS	Turns on during CC operation	
	ALARM STATUS	Turns on when an alarm has been activated	
	POWER ON STATUS	Turns on when the power is turned on	
Trigger signal	Input (TRG IN)	Logic selectable: LOW (0 V to 1.5 V), HIGH (3.5 V to 5 V)	
	Input impedance	10 kΩ (TYP)	
	Output (TRG OUT)	Logic selectable: LOW (0 V to 0.6 V), HIGH (4.2 V to 5 V)	
	Pulse width	100 μs (TYP)	

*1. f.s. is the full scale at the selected range. It is 10 V for the 10 V range and 5 V for the 5 V range.

*2. Photocoupler open collector output; maximum voltage 30 V, maximum current (sink) 8 mA; isolated from the output and control circuits; status commons are floating (withstand voltage of less than or equal to 60 V); and status signals are not mutually isolated.

Item/Model	400 W model	800 W model	1200 W model
Control functions			
External control	Output voltage control (VPGM)	0 % to 100 % of the rated output voltage	
	Accuracy	Selectable control voltage range: 0 V to 5 V or 0 V to 10 V	
	Output current control (IPGM)	5 % of rating	
	Accuracy	0 % to 100 % of the rated output current	
	Output on/off control OUTPUT ON/OFF CONT	Selectable control voltage range: 0 V to 5 V or 0 V to 10 V	
	Accuracy	5 % of rating	
Output on/off control	Output on/off control OUTPUT ON/OFF CONT	Logic selectable: Output on when set to LOW (0 V to 0.5 V) or shorted; output off when set to HIGH (4.5 V or 5 V) or open	
	Output on/off control OUTPUT ON/OFF CONT	Output on when set to HIGH (4.5 V to 5 V) or open; output off when set to LOW (0 V or 0.5 V) or shorted	
	Output shutdown control SHUT DOWN	Output on when set to LOW (0 V to 0.5 V) or shorted	
Alarm clear control ALM CLR	Alarm clear control ALM CLR	Alarm cleared when set to LOW (0 V to 0.5 V) or shorted	

Item/Model	400 W model	800 W model	1200 W model
Other functions			
Output-on/ off delay	Setting range: 0.0 s, 0.5 s to 99.9 s *1 setting resolution: 0.1 s		
Soft start and soft stop	Setting range: 0.0 s, 0.5 s to 10.0 s *1 setting resolution: 0.1 s		
Overcurrent protection (OCP) activation delay	Setting range: 0.0 s to 2.0 s *1 setting resolution: 0.1 s		
Preset memory	Up to three sets of the following settings can be saved: the set voltage, the set current, the set OVP, the set OCP, and the set UVL.		
Key lock	Locks the operation of all keys other than the OUTPUT key.		
CONFIG shortcut	Up to three CONFIG parameters can be registered to the SC1, SC2, and SC3 keys		
Sequence	Number of programs: 1		
	Number of steps: 64		
	Repetition count: 1 to 99998, INFINITY		
	Number of configurable interval loops: 16		
Synchronized Operation	Number of interval loops: 2 to 99998		
	Step time: 0.1 s to 100 h (common to step transition and ramp transition)		
Master-slave parallel operation *2	Synchronization of voltage and current settings, synchronization of the resumption of steps in a sequence program		
Series operation *3	Up to three units (same models) including the master unit		
Multichannel (VMCB)	Connection between the master unit and PC	Up to two units (same models) including the master unit	
	Connection with slave units	LAN, USB, RS232C	
		LAN	

*1. Factory default is 0.0 s.

*2. Current difference between the master and slaves is 5 % (TYP).

*3. H type is excluded

Item/Model	400 W model	800 W model	1200 W model
Operation display			
OUTPUT ON/ OFF	OUTPUT LED lights green when the output is on.		
Output-on/ off delay	"DLY" lights when it is set and blinks when it is in effect. OUTPUT LED blinks orange while output-on delay is in effect.		
Soft start and soft stop	OUTPUT LED blinks green while output-off delay is in effect.		
CV operation	"SS" lights when it is set and blinks when it is in effect. OUTPUT LED lights green when soft start is in effect. OUTPUT LED blinks green when soft stop is in effect.		
CC operation	CV LED lights in green.		
Alarm operation	CC LED lights in red.		
Preset memory	ALM LED lights in red when a protection function has been activated. ALM LED blinks red when the power limit (POWER LIMIT) is activated. OUTPUT LED blinks orange when a protection function is activated when the output is on.		
Key lock operation	PRESET A, B, or C LED lights green when a preset memory entry is being recalled or saved.		
Remote operation	LOCK LED lights green when the keys are locked.		
LAN operation	REMOTE LED lights green during remote control.		
	LAN LED lights or blinks depending on the status. No fault status: Lights green. Fault status: Lights green. Standby status: Lights orange. WEB identify status: Blinks green.		
Bleeder circuit	"HB" lights when the hyper bleeder is set.		
Variable internal resistance (VIR)	"VIR" lights when it is set.		
Sequence	"SEQ" lights when a sequence is being executed and blinks the PWR-01 is waiting for a trigger.		

Specifications

Common specifications

Item/Model	400 W model	800 W model	1200 W model
Interface			
Common specifications	Software protocol	IEEE Std 488.2-1992	
	Command language	Complies with SCPI Specification 1999.0	
RS232C	Hardware	Complies with the EIA232D specifications (excluding the connector)	
		RJ-45 connector (male) *1	
		Baud rate: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps	
		Data length: 8 bits, Stop bits: 1 bit, Parity bit: None	
	Program message terminator	LF during reception, CR/LF during transmission	
USB	Hardware	Complies with the USB 2.0 specifications; data rate: 480 Mbps (HighSpeed)	
		Socket B type	
	Program message terminator	LF or EOM during reception, LF + EOM during transmission	
	Device class	Complies with the USBTMC-USB488 device class specifications	
LAN	Hardware	IEEE 802.3 100Base-TX/10Base-T Ethernet	
		IEEE 802.3 100Base-TX/ 10Base-T Ethernet	
	Communication protocol	Complies with LXI Specification 2011 Ver.1.4	
		IPv4, RJ-45 connector *2	
	Program message terminator	VXI-11, HiSLIP: LF or END during reception, LF + END during transmission	
		SCPI-RAW: LF during reception, LF during transmission.	

*1. The RD-8P/9P adapter cable is an option.

*2. Category 5; use a straight cable.

Item/Model	400 W model	800 W model	1200 W model
General			
Weight (main unit only)		Approx. 3 kg (6.61 lb)	Approx. 7.5 kg (16.53 lb)
Dimensions		See the outline drawing.	
Environmental conditions	Operating environment	Indoor use, overvoltage category II	
	Operating temperature	0 °C to +50 °C (32 °F to +122 °F)	
	Operating humidity	20 %rh to 85 %rh (no condensation)	
	Storage temperature	-10 °C to +60 °C (14 °F to 140 °F)	
	Storage humidity	90 %rh or less (no condensation)	
	Altitude	Up to 2000 m	
Cooling method		Forced air cooling using fan	
Grounding polarity		Negative grounding or positive grounding possible	
Isolation voltage		L/ ML/ MH type: ±500 Vmax H type: ±800 Vmax	
With-standing voltage	Across the primary circuit and chassis	No abnormalities when 1500 Vac is applied for 1 minute	
	Across the primary and secondary circuits	L/ ML/ MH type: No abnormalities when 1650 Vac is applied for 1 minute H type: No abnormalities when 1900 Vac is applied for 1 minute	
	Across the secondary circuit and chassis	L/ ML/ MH type: No abnormalities when 2300 Vdc is applied for 1 minute H type: No abnormalities when 2640 Vdc is applied for 1 minute	
Insulation resistance	Across the primary circuit and chassis	100 MΩ or more (70 % or less) at 500 Vdc	
	Across the primary and secondary circuits	LL/ ML/ MH type: 100 MΩ or more (70 % or less) at 500 Vdc H type: 100 MΩ or more (70 % or less) at 1000 Vdc	
	Across the secondary circuit and chassis	L/ ML/ MH type: 40 MΩ or more (70 % or less) at 500 Vdc H type: 40 MΩ or more (70 % or less) at 1000 Vdc	
Accessories		Manual Chassis connection short bar Output terminal M4 screws Output terminal cover Output terminal M8 bolt set *Only L type and ML type included. Power cord *Included only with the 400W/800W model Input terminal cover *Included only with the 1200W model Ferrite core set *Included only with the 1200W model	
Electromagnetic compatibility (EMC)		Complies with the requirements of the following directive and standards. EMC Directive 2014/30/EU EN61326-1 (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 Degree 2 *6)	

*1. Does not apply to specially ordered or modified products.

*2. Limited to products that have a CE mark. Does not apply unless a core is attached to the J1 connector cable.

*3. This is a Class A instrument. 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 a Group 1 instrument. 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 a Class I instrument. Be sure to ground this product's protective conductor terminal. The safety of this product is guaranteed only 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.

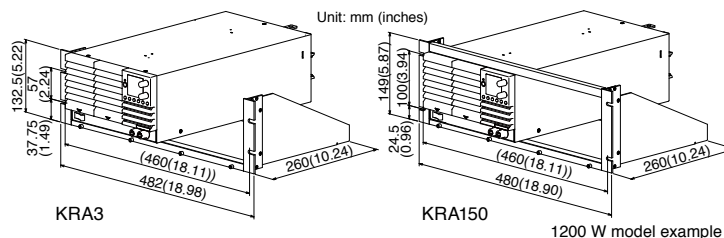
Options

Product	Model	Remark
AC power cord	AC5.5-3P3M-M4C-VCTF	For the 1200 W model. Total length 3 m. (Not CE compliant)
J1/ J2 connector plug kit	OP01-PWR-01	A plug kit for externally controlling the PWR-01 through the J1/ J2 connector. 30 pin pieces. Housing for the J1 connector and J2 connector, 1 piece each.
RS232C control conversion cable	RD-8P/9P	
Parallel operation cable	Coming soon	For 2 units in parallel
Sequence creation software	SD027-PWR-01	Wavy for PWR-01
Safety plugs	TL41	Screw connection type. Red and black, one set each.
	TL42	Solder connection type. Red and black, one set each.
Rack mount adapter	KRA3	For EIA inch racks
	KRA150	For JIS millimeter racks

● AC power cord



● Rack mount adapter



1200 W model example

Application software



Sequence Creation Software **Coming soon** SD027-PWR-01 (Wavy for PWR-01)

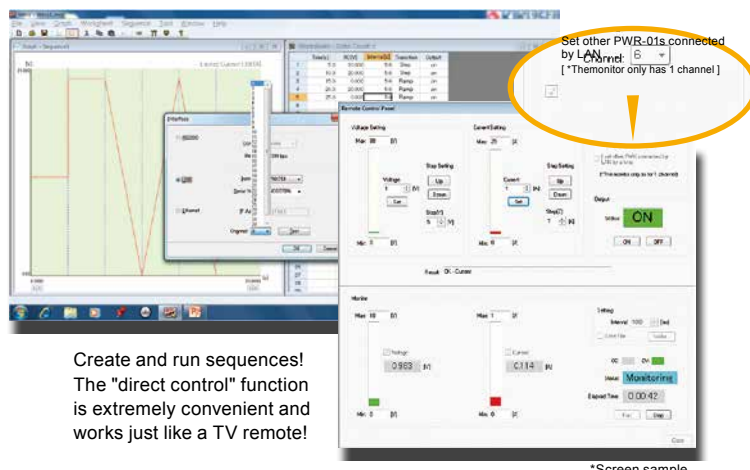
Software that supports automatic testing of a power supply, allowing you to create and edit sequence data with the click of a mouse!

SD027-PWR-01 (Wavy for PWR-01) 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 the click of a mouse and doesn't require programming knowledge. Wavy allows you to control your power supply in almost the same way as a remote controller for monitoring voltage and current, logging, etc.

[Operating environment, conditions]

- Number of power supplies or electronic loads that the Wavy can control is limited to one unit.
- *When a VMCB connection is used, the slave units are controlled at the same time the master unit is controlled.
- CPU: Pentium 4 HT or better (Recommended: Core2 or better)
- CD-ROM: Necessary to install the "Wavy"
- Mouse: Necessary
- Monitor: 1024 x 768 dots or higher resolution
- Memory: 128MB or more
- Interfaces: LAN, USB, RS232C

Global commands can be used for batch control of VMCB-connected PWR-01 power supplies!

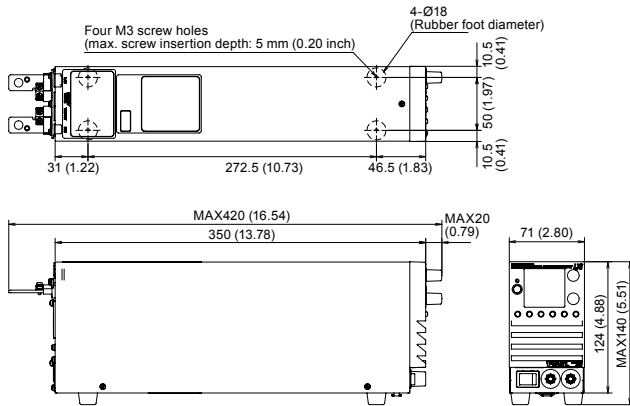


Create and run sequences!
The "direct control" function is extremely convenient and works just like a TV remote!

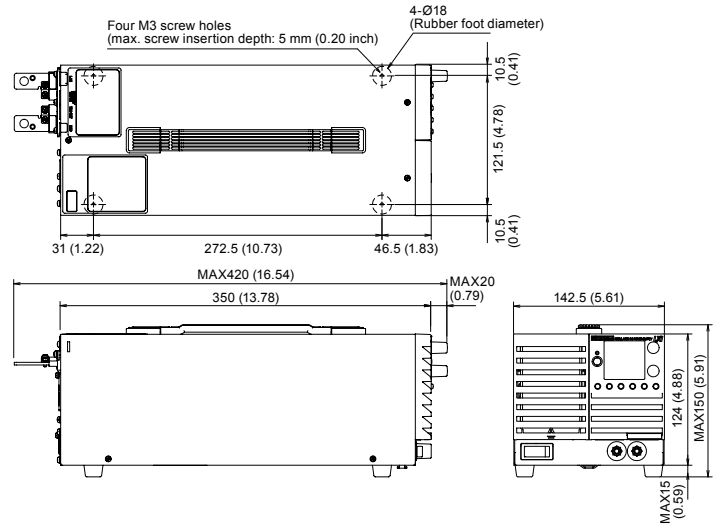
*Screen sample

■ Outline drawing (Unit mm (inches))

400 W model



800 W model



1200 W model

