



PLZ-5W/5WZ SERIES

DC ELECTRONIC LOAD

Multifunctional Electronic Load PLZ-5W/5WZ Series

Operation Voltage : 1 V to 150 V (from 0.05 V) High Speed Slew Rate : 60 A/µs Arbitrary I-V Characteristics: "ARB Mode" included Parallel Operation Feature: Total current and power can be increased to a maximum of 10.8 kW (2160 A) with booster units. High resolution color LCD display Various Communication Interfaces : LAN (LXI compliant), USB, RS232C, GPIB (Option), External Analog Control Improved Sequence Feature (Maximum 10000 steps) NEW Impedance Measurement Function



The New Flagship model is born!

Introducing the new standard of Electronic Load !

High-Speed Response, Universal Interface, Large-Scale System Compatibility

The PLZ-5W Series electronic load is the successor of the highly respected PLZ-4W that continues the series tradition of high specification and excellent build quality. New

improvements include a user-friendly LCD color display and a wide voltage range from 1V to 150V. Custom voltage/ current profiles can now be programmed using the new ARB function, ideal for LED driver and solar panel testing. The PLZ-5W now includes 6 basic modes of operation (CC, CR, CV, CP, CC+CV, & CR+CV) for optimal flexibility in any test Detachable input terminals facility.



for ease of use

The PLZ-5W is now equipped with a high-speed response feature boasting a maximum slew rate of 60A/us (PLZ1205W) and a minimum setting resolution of 10uA (PLZ205W). Additional features include a soft-start function, variable slew rate, selectable response mode (CV/CR mode), switching function, ABC programmable memory, 20 user-defined setup configurations, and a sequence function. The high-speed response of the PLZ-5W is ideal for the development and testing of modern day power supplies that require sudden changes in current at high speeds as well as for testing of current clamps and transducers. The PLZ-5W series is available in 4 standard models which can be incrementally expanded by adding booster units (PLZ2405W) for a maximum of 10.8kW/2160A. The PLZ-5W now is equipped with a diverse digital communication interface supporting LAN (LXI), USB, RS232C, analog control, and GPIB as a factory option.

Research and development of Photo-Voltaic, (Hybrid) Electric vehicle Applications drives, Fuel Cell technologies, Batteries, LEDs and Power Supplies.



DC ELECTRONIC LOAD

size

Multifunctional Electronic Load PLZ-5W Series

Model	Operating voltage	Current	Power
PLZ205W		40 A	200 W
PLZ405W	1 V to 150 V	80 A	400 W
PLZ1205W		240 A	1200 W
PLZ2405WB		480 A	2400 W

[functions]

 Parallel Operation
 Communication function
 Ourrent monitor output
 Ovariable slew rate
 Switching function
 Soft start function
 Elapsed time display and auto load off timer

Remote sensing function

Load on/off operations

Range control input

Alarm input

Alarm input

Alarm status output

Load-on status signal output

Range status output

Short-circuit function

External voltage control input(CC, CR, CV and CP modes)

Overvoltage protection (OVP) •Overcurrent protection (OCP) •Overpower protection (OPP) •Overheat protection (OTP) •Undervoltage protection (UVP) •Reverse connection detection (REV)



Color liquid crystal display (LCD)



Highly resolution color display allows for the convenient monitoring of values such as voltage, current, power, current capacity (Ah) and power capacity (Wh) all in the same place.



Wide-Ranging Digital Interface

LAN (LXI) / USB / RS232C as standard interface *GPIB Option



New numeric keypad for easy operation.

Values can now be input directly from the front panel.

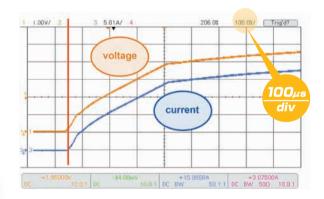
Maximum Slew Rate of 60 A/µs

The PLZ-5W series boasts a 4 uS rise time, easily satisfying the critical needs of power supply evaluation tests demanding a fast transient response.



High speed voltage tracking characteristics

High speed voltage tracking in CR mode is perfect for applications such as power supply startup tests.

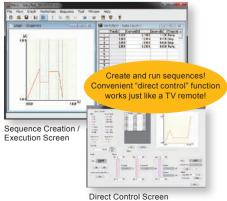


Application software

Sequence Creation Software SD023-PLZ-5W

SD023-PLZ-5W (Wavy for PLZ-5W) is the proprietary Kikusui software for sequence creation and control of Kikusui power sup-

plies and electronic loads. "Wavy" software allows for easy sequence creation and editing without prior programming knowledge. Wavy software can be used for remote control of the electronic load, monitoring of voltage and current values, and for data logging.



[See P15]

*For details, please see our company's homepage.

Operation modes

The following five operation modes are available on the PLZ-5W. These can be selected when the load is in the off state.

Constant current (CC) mode	A current value is specified and the current is kept constant even when the voltage changes.
Constant resistance	A conductance value is specified and the PLZ-5W sinks current
(CR) mode	proportional to the voltage variation.
Constant voltage	A voltage is specified and the PLZ-5W sinks current so that the
(CV) mode	voltage at the load input end of the PLZ-5W is constant.
Constant power	A voltage is specified and the PLZ-5W sinks current so that the
(CP) mode	power consumed inside the electronic load is constant.
Arbitrary I-V characteristics (ARB) mode	The desired load characteristics can be set by specifying multiple arbitrary voltage values and current values as I-V characteristics.

Adjustable slew rate

The speed of change can be set when the current is changed. The slew rate setting will function in the following instances.

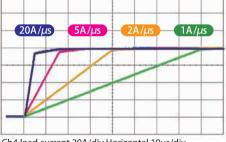
•When the setting is changed to vary the current value

(including the switching function).

•When the current value is changed using external control in constant current (CC) mode.

•When the current value is changed while the load is on.

CC Mode / High range / 0-80A Switching



The slew rate is set according to the current range as an amount of current change per unit of time. Moreover, a common value is set for the rise and fall speeds. In CC mode and ARB mode, the slew rate can be set regardless of whether the load is on or off.

Ch4 load current 20A/div Horizontal 10us/div

▲Shift in the current waveform with the change in the slew rate

. .

High precision and high resolution

The built-in three-range configuration provides wide dynamic range and high precision.

PLZ205W operating range and setting resolution							
		Operating range	Setting resolution				
Constant current mode	H range M range L range	0 A to 40 A 0 A to 4 A 0 A to 0.4 A	1 mA 0.1 mA 0.01 mA				
Constant resistance mode*	H range M range L range	40 S to 0.002 S 4 S to 0.0002 S 400 mS to 0.02 mS	1 mS 0.1 mS 0.01 mS				
Constant voltage mode	H range L range	1 V to 150 V 1 V to 15 V	5 mV 0.5 mV				
Constant power mode	H range M range L range	20 W to 200 W 2 W to 20 W 0.2 W to 2 W	0.005 W 0.0005 W 0.00005 W				
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* Conductance [S] = Input current [A] / Input voltage [V] = 1 / Resistance [Ω]

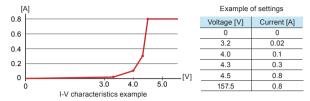
Load on/off operation

The following load on/off settings are available in addition to standard operations that can be carefully adjusted to fit the needs of any test environment.

- Start with "load on" when power is turned on
- Display elapsed "load on" time
- Auto "load off" when time limit is reached
- Control "load on/off" with external controls such as relays

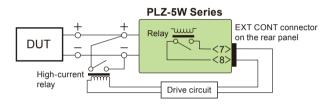
Arbitrary I-V characteristics (ARB) mode

In ARB mode arbitrary I-V characteristics can be set by entering multiple I-V points (voltage and current value set points). 3 to 100 points can be registered and the spaces between all points are automatically linearly interpolated. This mode can be used for the simulation of LED drivers and other DUT's with non-linear characteristics.[P8]



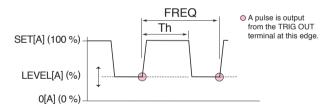
Short function

When the short function is activated, the maximum current value will be set if in CC mode, and the minimum voltage value will be set if in CR mode. The relay contact (30 Vdc/1 A) of the EXT CONT connector closes, and the load imput terminals can then be shorted by driving an external high-current relay.



Switching function

Switching mode can be performed at up to kHz while in CC and CR modes. The switching setting parameters such as switching level, frequency, and duty factor can be changed at any time, even while the load is on.



[Setting parameters]	[Setting parameters]							
Operation mode: CC ar	nd CR							
Frequency setting rang	e: 1 Hz to 100 kHz							
Frequency setting reso	lution							
1 Hz to 10 Hz	0.1 Hz							
11 Hz to 100 Hz	1 Hz							
110 Hz to 1 kHz	10 Hz							
1.1 kHz to 10 kHz	0.1 kHz							
10 kHz to 100 kHz	20 kHz, 50 kHz, 100 kHz							

Frequency setting accuracy: ±(0.5 % of set)

Duty factor, steps

1 Hz to 10 Hz				
11 Hz to 100 Hz	5.0% to 95.0%, in steps of 0.1%			
110 Hz to 1000 Hz				
1.1 kHz to 10.0 kHz	5.0% to 95.0%, in steps of 1%			
10 kHz to 100 kHz	10% to 90%, in steps of 10%			

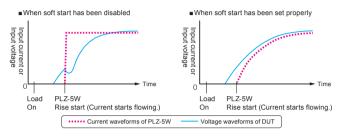
* The minimum time interval for setting the duty factor is 5 µs.

Soft start function

The soft start feature controls the rise time of the load current. The soft start feature can be activated when the following conditions are met.

- •The rise time of the soft start has been set.
- Load on" while in CC Mode.
- Soft start input settings start from zero input and end equal to or above the minimum operating voltage (0.05 V).

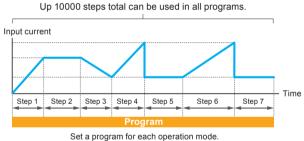
This function can be used if the output of the DUT becomes unstable when the load current rises sharply, or when the operator wishes to delay the current change on startup to prevent the DUT's overcurrent protection circuit from being activated.



Can be set to OFF / 100 μs / 200 μs / 500 μs / 1 ms / 2 ms / 5 ms / 10 ms / 20 ms. This sets the soft start time.

Sequence function

The operator can execute a long sequence of predetermined values with the sequence function. A sequence consists of programs and steps. A program is a collection of steps, which are executed in order, one by one, starting from step 1. The program is considered complete after the last step in the program is executed.

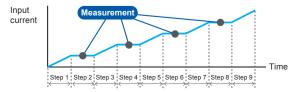


et a program for each operation mod Up to 30 programs can be set.

Setting item	Description
Load setting	Current, conductance, voltage, power. The values that can be set depend on the current operation mode.
Step execution time	0.000025s to 3600000s
Transition method of the current value	Step or Ramp
Number of loops of program	1 to 100000 repetitions, or infinite repetitions.
Sequence editing / execution / stop method	Front panel operation or remote operation via RS232C / LAN / USB.
Miscellaneous	Load on/off control, Slew Rate, CV mode addition, Trigger signal setting, trigger signal output, Specifies the value at which a protection function (OCP, OPP, UVP) is activated.

TALink

The operator can use the TALink (Transient Acquire Link) trigger to synchronize the PLZ-5W with steps of a sequence and enable data logging. Logged data can then be acessed via digital communication with the PLZ-5W.



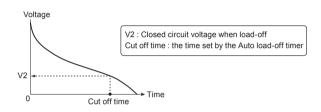
Remote sensing function

With remote sensing, the voltage measurement point can be changed from the load input terminal to the DUT sensing point. By connecting the sensing leads to the DUT, the effects of voltage drops caused by resistance in the load cables can be reduced and the load current stabilized. To activate remote sensing, connect the sensing cables to the sensing terminals of the PLZ-5W at the DUT end, and enable the remote sensing function.

• Possible remote sensing compensation voltage : approx. 7 V (Total potential difference between the input terminals and sensing terminals)

Auto load off timer

The auto load off timer automatically turns off the load after a specific amount of time elapses from the discharge of the DUT. The integrated power and current is measured immediately after the load is turned off, ideal for battery discharge tests.



Synchronized operation

The following synchronization features are available when simply connecting the PLZ-5W with other equipment using a communication cable.

- Synchronizing load on/off among multiple pieces of equipment
- Synchronizing measurements (remote control)
- Synchronizing the start time and resume time for sequences across multiple units

Different PLZ-5W models can be connected (Ex: PLZ205W and PLZ1205W). Synchronization is also available during parallel operation.

Setup memory

The setup memory can store up to 20 sets of the settings listed below.

- Operation mode
- Load settings (current, conductance, voltage, power)
- Current range setting
- Voltage range setting
- •Slew rate
- Switching level (current value/conductance value, or percentage)
- Switching interval (frequency/time of one cycle and duty cycle/ operating time on the high side.)
- Alarm detection point
- Content of ABC preset memories

ABC preset memory

Three setting values can be stored in preset memory slots A, B, and C. The stored values can be recalled freely at any time even when the load is on. In CC+CV and CR+CV modes, constant current and constant voltage values, as well as constant resistance and constant voltage values can be recalled and saved, respectively.

Diverse protections, other functions

Overcurrent protection (OCP), Overpower protection (OPP), Overvoltage detection(OVP), Undervoltage protection (UVP), Overheat detection(OTP), Reverse-connection detection(REV), Alarm input detection, Configuration setting, USB Keyboard Compliant

Booster (PLZ2405WB)

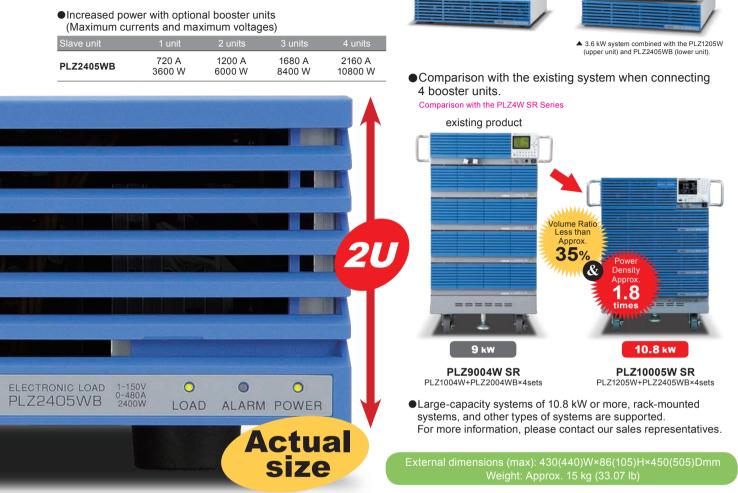
*PLZ2405WB is a dedicated booster for PLZ1205W. It cannot be used with any other model.

Booster unit PLZ2405WB

[Configuration example]

Achieving 2400 W in a "2U" chassis

Connecting up to 4 booster (PLZ2405WB) units with the master (PLZ1205W) increases the maximum system capability to 10.8 kW 2160 A. The optional parallel cable (PC01-PLZ-5W) is required to connect between the master and slave/booster units.



Parallel operation

Multiple units of the same type can be connected in parallel.

Even without boosters, up to five PLZ-5W units of the same model can be connected in parallel for a maximum of 6 kW, 1200 A. While connected in parallel, one master has complete control of the slave unit(s), allowing the user to control the entire system and monitor all data from the master unit's panel. Parallel operation requires one optional parallel cable (PC01-PLZ-5W) per unit.

*The PLZ2405WB (Booster) comes with 1 pc. of parallel operation cable (PC01-PLZ-5W).

• Number of parallel connected units and capacities (maximum currents and maximum voltages)

Slave unit		2 units	3 units	4 units
PLZ205W	80 A	120 A	160 A	200 A
	400 W	600 W	800 W	1000 W
PLZ405W	160 A	240 A	320 A	400 A
	800 W	1200 W	1600 W	2000 W
PLZ1205W	480 A	720 A	960 A	1200 A
	2400 W	3600 W	4800 W	6000 W

*Additional parallel operation calibration can achieve the same setting and measurement accuracy of a single unit.

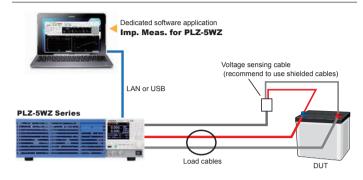
Connection example Parallel operation Parallel operation using using the same type of boosters (PLZ1205W only) electronic loads MASTER(PL71205W) MASTER(PL71205W) 0-0 9-9 BOOSTERS(PLZ2405WB) SLAVE(PLZ1205W) 0-0 BOOSTERS(PLZ2405WB) SLAVE(PLZ1205 BOOSTERS(PLZ2405WB) SLAVE(PLZ1205W) 0-0 BOOSTERS(PLZ2405WB) SLAVE(PLZ1205W) **Parallel operation** signal cable (PC01-PLZ-5W)

Impedance measurement function (factory option)

The perfect addition for battery production and maintenance

- The all-new PLZ-5WZ series allows for easily configured impedance measurements with dedicated impedance measurement software.
- Impedance measurements are made during discharge, allowing for real-time measurement of impedance values from the DUT.
- Capable of R, jX, θ, and Z measurements.
- Measures AC frequency from 100 Hz 10 kHz (seven fixed settings) and signal levels can be set arbitrarily.
- Equipped with a voltage slope correction function that minimizes the effect of voltage slope during during battery discharge tests.
- Zero adjustment function allows for increased accuracy during critical impedance measurements.
- Measurement results and graphical information can be copied directly from the application software to programs like Excel.

System Configuration (example)



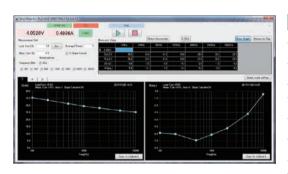
Lineup

Model
PLZ205WZ (SPEC21192)
PLZ405WZ (SPEC21192)
PLZ1205WZ (SPEC21192)

Impedance measurement system **PLZ-5WZ** Series NEW (SPEC21192)

* High-capacity models are also available via special order.

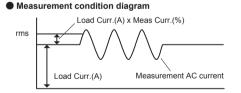
Application software Imp. Meas. for PLZ-5WZ (accessory)

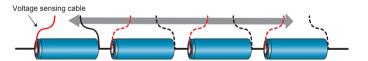


Measurement functions

Item	Details	Conditions & remarks
Measurement AC frequency	100Hz、200Hz、500Hz、1kHZ、2kHz、5kHz、10kHz	Seven fixed settings
Measurement AC current (Meas Curr.)	0.1 % to 10 % of the DC load current (Load Curr.)	Set as a percentage
Measurement time	50 ms to 5 s	Depends on the measurement AC frequency.
Measurement items	R、X、 Z 、θ	θ is calculated from R and X.
Measurement average	Averages 1 to 16 measured values.	Function available when using application
Zero adjustment (0 ADJ)	Zero adjustment on the DUT voltage sensing end	Function available when using application
V Slope Cancel	Eliminates the effect that the slope of the DUT voltage caused by discharge has on measurements	Complete elimination is not possible if the slope is nonlinear
Measurement method	2-phase lock-in amplifier method	Based on digital computation.
Operating environment	Windows7/Windows10 (32bit/64bit)	

Impedance measurement for each single cell is also possible





Measurement accuracy

Valtage renge at L renge (1E \/)

[Conditions] ■ Ambient temperature: 18°C to 28°C ■ DUT: Reference resistance ■ Bias power supply: 12 V 54 Ah lead battery ■ Measurement AC current: Depends on DUT impedance (refer to the following table).

Percentage of ±Z readout value		Measurement AC frequency							
DUT impedance	DUT impedance Measurement AC current		1kHz、2kHz	5kHz、10kHz					
$1.0 \text{m}\Omega \sim 9.9 \text{m}\Omega$ 500 mArms or more		\pm (5% of reading+0.5m Ω)	$\pm (5\% of reading + 0.5m\Omega)$	—					
$10.0m\Omega \sim 99.9m\Omega$	250 mArms or more	$\pm(5\% \text{ of reading}+0.5m\Omega)$	\pm (5% of reading+0.5m Ω)	—					
$100.0m\Omega \sim 1000.0m\Omega$	150 mArms or more	\pm (2% of reading+0.5m Ω)	\pm (3%of reading+0.5m Ω)	—					

Voltage range at H range (150 V)

Percentage of ±Z readout value									
DUT impedance Measurement AC current		1kHz、2kHz	5kHz、10kHz						
1.0m $\Omega \sim$ 9.9m Ω 2 Arms or more		±(5%of reading+0.5mΩ)	—						
500 mArms or more	$\pm(5\% \text{ of reading}+0.5m\Omega)$	\pm (5%of reading+0.5m Ω)	—						
250 mArms or more	$\pm(3\% \text{ of reading+0.5m}\Omega)$	\pm (4%of reading+0.5m Ω)	—						
	ue Measurement AC current 2 Arms or more 500 mArms or more	ue Measurement AC frequency Measurement AC current 100Hz, 200Hz, 500Hz 2 Arms or more ±(5% of reading+0.5mΩ) 500 mArms or more ±(5% of reading+0.5mΩ)	Measurement AC frequency Measurement AC current 100Hz, 200Hz, 500Hz 1kHz, 2kHz 2 Arms or more ± (5% of reading+0.5mΩ) ± (5% of reading+0.5mΩ) 500 mArms or more ± (5% of reading+0.5mΩ) ± (5% of reading+0.5mΩ)						

* Accuracy of measurements outside the measurement range, L range current, and shaded portion is not guaranteed.

* 6 is calculated from R and X by the application software. * Specifications not listed above are in accordance with PLZ-5W Series product specifications.

Current Sensor Evaluation (Example)

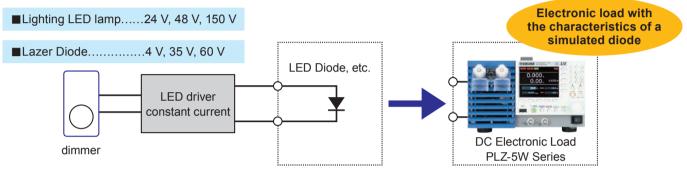
Accurate current sensor evaluation possible when combined with a high-precision CC DC power supply. Additionally, 3-level range settings allow you to.



Power Supply Impedance Measurement (Example)

• Arbitrary I-V characteristics (ARB) mode

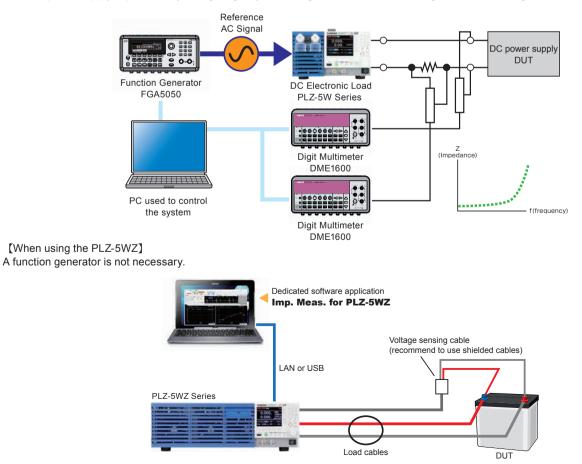
In ARB mode arbitrary I-V characteristics can be set by entering multiple I-V points (voltage and current value set points). 3 to 100 points can be registered and the spaces between all points are automatically linearly interpolated. This mode can be used for the simulation of LED drivers and other DUT's with non-linear characteristics.



Impedance measurement of the power supply (Example)

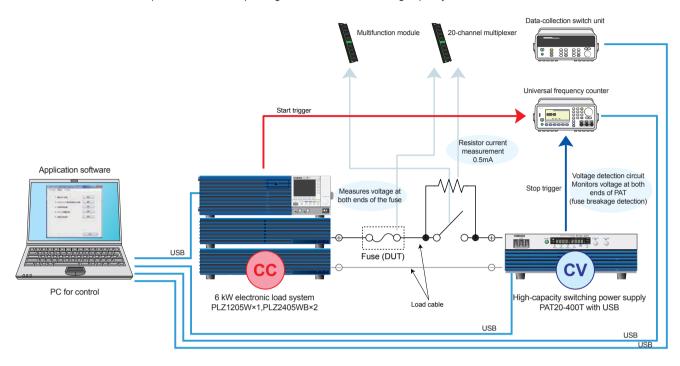
[When using the PLZ-5W]

Measure power supply impedance by configuring a system using the PLZ-5W, a function generator, and a digital multimeter.



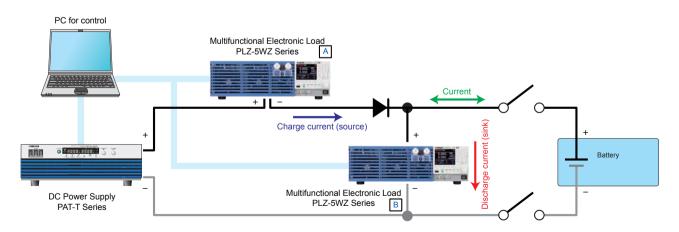
Fuse Rupture Test (Example)

For fuse rupture tests, DC power supplies with high-speed CC current control is absolutely vital. Although it is normaly quite difficult to achieve such high-speed control with only a DC power supply, the addition of a PLZ-5W electronic load makes high speed current control possible. With the PLZ-5W, fuse rupture tests that adhere to standards such as the JASO D612 are made possible. These tests include voltage drop tests, transient current cut-off tests, rupture time tests, step energization tests, and breaking capacity tests.



Battery Evaluation Test (Example)

Although high-speed operation cannot be achieved using only the PAT-T high-capacity switching power supply, the fast-response unipolar power supply system can be suplemented by connecting with the PLZ-5W series electronic load in series and parallel. This makes it possible to flow current while synchronizing the charge and discharge current patterns for a battery at high speeds. Furthermore, the additional features of the PLZ-5WZ allow for seamless measurement of battery imedance during evaluation.



PLZ-5W SR (Smart Rack) Series

The compact, large scale PLZ-5W SR (Smart Rack) system is available for high power applications that don't take up valuable test space.

- The system comes in 4 models ranging from 6 kW to 20.4 kW.
- Assembled with exclusive components for optimal design.
- Systems are delivered fully assembled and tested, ready to operate immediately.
- AC input 90 V to 250 V auto select; no special wiring is required.
- Range switching function guarantees the exact specification down to the smallest input. (Performance test data is included)
- LAN/USB/RS232C as standard interface. *GPIB option
- Compatible with "Wavy" Sequence Creation Software.
- Load input terminal is designed for optimal safety.
- Load cable for high current is available.









High Current

Max.2160 A



Safety covers supplied on all models.

User-friendly terminal cover design for maximum safety and ease of access

Applications (example)

 Charge/Discharge test on the large capacity secondary battery
 Converter evaluation
 Alternator evaluation

● FC stack cell evaluation ● PV panel evaluation

• EV charger evaluation • Heat generation evaluation by

the harness electric conduction

• Capacitor endurance test • Evaluation on the industrial larage capacity DC power suppy system

The Smart Rack is safe, easy-to-use, and expertly designed.



PLZ-5W SR Series

Specifications		Rating		Constant current mode (CC)				Constant voltage mode (CV)															
Model	Operating voltage	Current	Power	Operating range			Ripple	Operating range			Resolution		lution										
Woder	V	А	W	H range (A)	M range (A)	L range (/	A) mArms*	H range (V)	L rang	e (V)	H range (mV)		L range (mV)										
PLZ6005W SR		1200	6000	0 to 1260	0 to 126	0 to 12.6	6 120																
PLZ10005W SR	1 to 150		10800	0 to 2268	0 to 226.8	0 to 22.6	8 216	0 to 157.50	0 4- 45 750		5.750 5		0.5										
PLZ15005W SR	1 10 150	2160	15600	0 to 3276	0 to 327.6	0 to 32.7	6 312	0 10 157.50		0 to 15.750		5.750 5	0.5										
PLZ20005W SR			20400	0 to 4284	0 to 428.4	0 to 42.8	4 408	1															
Specifications	Cor	nstant resistar	nce mode (Cl	R)		Con	stant power mode	(CP)		We	eight	Powe	r consumption										
Model		Operating	g range		Operating range			Ap		prox.		Approx.											
woder	H range (S)	M rang	e (S)	L range (S)	H range	e (W)	M range (W)	L range (W)		ł	kg		VA										
PLZ6005W SR	1260 to 0	126 t	0 0	12.6 to 0	0 to 6	0 to 6300		0 to 63.0		82			275										
PLZ10005W SR	2268 to 0	226.8	to 0	22.68 to 0	0 to 1	1340	0 to 1134	0 to 11	3.4	1	20		465										
PLZ15005W SR	3276 to 0	327.6	to 0	32.76 to 0	0 to 1	6380	0 to 1638	0 to 16	3.8	1	60		655										
PLZ20005W SR	4284 to 0	428.4	to 0	42.84 to 0	0 to 2	1420	0 to 2142	0 to 21	4.2	2	:00		855										
						* Measure	ement frequency b	andwidth: 10 H	z to 1 M	Hz At r	neasure	ment c	urrent of 100 A										

High Current Load Wire (Solderless terminals on both ends.)

Model	DC14-2P3M-M12M8	DC38-2P3M-M12M8	DC80-2P3M-M12M8	DC80-2P3M-M12M12	DC150-2P3M-M12M12	DC150-4P3M-M12M12	DC600-2P3M-M12M12
Maximum Allowable voltage			650	0 V			150 V
Maximum Allowable current	50 A	100 A	200 A	200 A	300 A	500 A	1000 A
Terminal	M12 / M8	M12 / M8	M12 / M8	M12 / M12	M12 / M12	M12 / M12	M12 / M12
Nominal Cross- Sectional Area	14 mm ² (Equivalent of AWG5)	38 mm ² (Equivalent of AWG1)	80 mm ² (Equivalent of AWG3/0)	80 mm ² (Equivalent of AWG3/0)	150 mm ² (Equivalent of AWG6/0)	150 mm ² (Equivalent of AWG6/0)	600 mm ²
Length / Weight *Per cable	Approx. 3 m / Approx. 0.5 kg	Approx. 3 m / Approx. 1.4 kg	Approx. 3 m / Approx. 2.8 kg	Approx. 3 m / Approx. 2.8 kg	Approx. 3 m / Approx. 5 kg	Approx. 3 m / Approx. 5 kg	Approx. 3 m / Approx. 20 kg
Exterior design	O	Ô			Ő	\bigcirc	

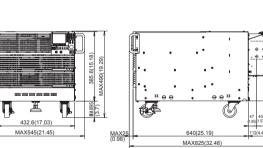
Outline drawing

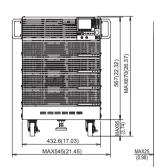
Outline drawing			Unit: mm(inches)
PLZ6005W SR	433(17.04)W×370(14.56)H×640(25.19)Dmm	PLZ15005W SR	433(17.04)W×748(29.44)H×640(25.19)Dmm
PLZ10005W SR	433(17.04)W×567(22.32)H×640(25.19)Dmm	PLZ20005W SR	433(17.04)W×930(36.61)H×640(25.19)Dmm

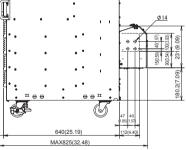
1.6(5.

• PLZ6005W SR

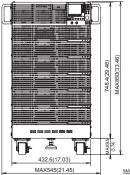


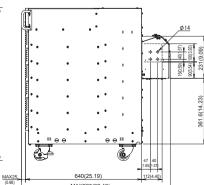






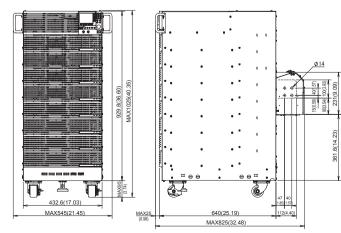
• PLZ15005W SR





MAX825(32.48)

● PLZ20005W SR



Unit: mm(inches)

PLZ205W/PLZ405W/PLZ1205W Specifications

Ratings			
Item	PLZ205W	PLZ405W	PLZ1205W
Operating voltage	1 V to 150 V *1		
Current	40 A	80 A	240 A *2
Power	200 W	400 W	1200 W
The minimum operating voltage	approximately 0.05 V. (At the load input terminals on the rear panel.)		
Input resistance when the load is off	Approx. 660 kΩ *3		
Load input terminal's isolation voltage	±500 V		
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Isolation voltage including mode, for every slew rate setting of 1 A / µs, the minimum operating voltage (including the voltage drop due to the wiring inductance component) increases by approximately 150 mV for the PLZ205W, 125 mV for the PLZ405W, and 75 mV for the PLZ105W. *2 80 A for the load input terminals on the front panel. The specifications of the PLZ-5W are for the load input terminals on the front panel may not meet the specifications. *3 In the case of parallel operation using the same models, approx. 660 / number of units kΩ.

Constant c	urrent (CC)	mode			
Ite	m	PLZ205W	PLZ405W	PLZ1205W	
o	H range	0 A to 40 A	0 A to 80 A	0 A to 240 A	
Operating range	M range	0 A to 4 A	0 A to 8 A	0 A to 24 A	
runge	L range	0 A to 0.4 A	0 A to 0.8 A	0 A to 2.4 A	
0	H range	0 A to 42 A	0 A to 84 A	0 A to 252 A	
Setting range	M range	0 A to 4.2 A	0 A to 8.4 A	0 A to 25.2 A	
runge	L range	0 A to 0.42 A	0 A to 0.84 A	0 A to 2.52 A	
	H range	1 mA	2 mA	5 mA	
Resolution	M range	0.1 mA	0.2 mA	0.5 mA	
	L range	0.01 mA	0.02 mA	0.05 mA	
0	H range	± (0.2% of set + 0.1% of range)			
	M range	± (0.2% of set + 0.3% of range)			
	L range	± (0.2% of set + 1% of range)			
Devellet	H range	± (0.4% of set + 0.8% of range)			
	M range	± (0.4% of set + 0.8% of range)			
operation	L range	± (0.4% of set + 5% of range)			
Input line re	gulation *1	4 mA	8 mA	24 mA	
Pinnle	rms *2	4 mA	8 mA	24 mA	
TTIPPIE	р-р <mark>*3</mark>	40 mA	80 mA	200 mA	
Setting accuracy Parallel operation Input line re Ripple	L range H range M range L range H range L range gulation *1 rms *2 p-p *3	$\begin{array}{c} 0.01 \text{ mA} \\ \pm (0.2\% \\ \pm (0.2\% \\ \pm (0.2\% \\ \pm (0.4\% \\ 4 \text{ mA} \\ 4 \text{ mA} \\ 40 \text{ mA} \end{array}$	0.02 mA of set + 0.1% of range) of set + 0.3% of range) of set + 1% of range) of set + 0.8% of range) of set + 0.8% of range) of set + 5% of range) 8 mA 8 mA	0.05 mA	

TWhen the input voltage is changed from 1 V to 150 V at a current of rated power / 150 V.
 ZMeasurement frequency bandwidth: 10 Hz to 1 MHz
 *3 Measurement frequency bandwidth: 10 Hz to 20 MHz

Constant resistance (CR) mode

Constant						
Ite	m	PLZ205W	PLZ405W	PLZ1205W		
	H range	40 S to 0.002 S (0.025 Ω to 500 Ω)	80 S to 0.004 S (0.0125 Ω to 250 Ω)	240 S to 0.012 S (0.0042 Ω to 83.333 Ω)		
Operating range *1	M range	4 S to 0.0002 S (0.25 Ω to 5000 Ω)	8 S to 0.0004 S (0.125 Ω to 2500 Ω)	24 S to 0.0012 S (0.042 Ω to 833.33 Ω)		
	L range	400 mS to 0.02 mS (2.5 Ω to 50000 Ω)	800 mS to 0.04 mS (1.25 Ω to 25000 Ω)	2 400 mS to 0.12 mS (0.42 Ω to 8333.3 Ω)		
	H range	42 S to 0 S (0.0238 Ω to Open)	84 S to 0 S (0.0119 Ω to Open)	252 S to 0 S (0.00397 Ω to Open)		
Setting range	M range	4.2 S to 0 S (0.238 Ω to Open)	8.4 S to 0 S (0.119 Ω to Open)	25.2 S to 0 S (0.0397 Ω to Open)		
	L range	420 mS to 0 S (2.38 Ω to Open)	840 mS to 0 S (1.19 Ω to Open)	2520 mS to 0 S (0.397 Ω to Open)		
	H range	1 mS	2 mS	5 mS		
Resolution M range		0.1 mS	0.2 mS	0.5 mS		
	L range	0.01 mS	0.02 mS	0.05 mS		
Setting	H range	± (0.5% of set + 0.5% of range)				
accuracy	M range	± (0.5% of set + 0.5% of range)				
*2	L range	± (0.5% of set + 1.5% of range)				
Parallel	H range	± (0.5%	of set + 1.5% of range)			
operation	M range	± (0.5%	of set + 1.5% of range)			
`	L range		of set + 5% of range)			
		t current [A]/input voltage [\				

*2 Converted value at the input current. At the sensing terminals.

Constant v	oltage (CV)	mode		
Item		PLZ205W	PLZ405W	PLZ1205W
Operating	H range	1 V to 150 V		
range	L range			
Setting	H range	0 V to 157.5 V		
range	L range	0 V to 15.75 V		
Resolution	H range	5 mV		
Resolution	L range	0.5 mV		
Setting	Setting ± (0.1% of set + 0.1% of range)		nge)	
accuracy	Parallel operation	± (0.2% of set + 0.2% of range)		
Input curren	t variation*2		12 mV	

*1 With the input voltage within the operating range, and at the sensing terminals during remote sensing.
*2 For a current change in the range of 10% to 100% of the rating at an input voltage of 5 V (during remote sensing).

	ower (CP) r					
Ite	m	PLZ205W	PLZ405W	PLZ1205W		
Operating	H range	20 W to 200 W	40 W to 400 W	120 W to 1200 W		
range	M range	2 W to 20 W	4 W to 40 W	12 W to 120 W		
	L range	0.2 W to 2 W	0.4 W to 4 W	1.2 W to 12 W		
Catting	H range	0 W to 210 W	0 W to 420 W	0 W to 1260 W		
Setting range	M range	0 W to 21 W	0 W to 42 W	0 W to 126 W		
lange	L range	0 W to 2.1 W	0 W to 4.2 W	0 W to 12.6 W		
	H range	0.005 W	0.01 W	0.05 W		
Resolution	M range	0.0005 W	0.001 W	0.005 W		
	L range	0.00005 W	0.0001 W	0.0005 W		
		± (0.5% of range	± (0.5% of range	± (0.5% of range		
- ···	H range	+ 0.04 A × Vin)	+ 0.08 A × Vin)	+ 0.24 A × Vin)		
Setting accuracy *1	M range	± (0.5% of range + 0.008 A × Vin)	± (0.5% of range + 0.016 A × Vin)	± (0.5% of range + 0.048 A × Vin)		
	L range	± (1% of range + 0.004 A × Vin)	± (1% of range + 0.008 A × Vin)	± (1% of range + 0.024 A × Vin)		
Devellet	H range	± (2% of	range + 0.4% current ran	ige × Vin)		
Parallel operation	M range	± (2% of	range + 0.4% current ran	ige × Vin)		
operation	L range	± (2% of	range + 2.5% current ran	ige × Vin)		
*1 Vin: The vo	oltage at the l	oad input terminals on the r	ear panel or sensing termin	als.		
Arbitrarv I-'	V characte	ristics (ARB) mode				
Ite		PLZ205W	PLZ405W	PLZ1205W		
Operating r		Three to 100 points of	current values can be s	et for the input voltage		
Response s		Response for input vol	o points is linearly interp tage minimum 50 us	polated.		
Voltmeter	peeu		age minimum oo po.			
Ite	m	PLZ205W	PLZ405W	PLZ1205W		
	H range		0.00 V to 150.00 V			
Display	L range	0.000 V to 150.00 V				
Accuracy		+ (0.1		range)		
	operation (TYP)	\pm (0.1% of reading + 0.1% of range) + (0.1% of reading + 0.1% of range)				
		± (0.1% of reading + 0.1% of range)				
Ammeter		DI ZOOSINI		DI 74005W/		
Ite		PLZ205W	PLZ405W	PLZ1205W		
	H range	0.000 A to 40.000 A	0.000 A to 80.000 A	0.00 A to 240.00 A		
Display	M range	0.0000 A to 4.0000 A	0.0000 A to 8.0000 A	0.000 A to 24.000 A		
Display						
Display	L range	0.00 mA to 400.00 mA	0.00 mA to 800.00 mA			
	L range H, M range	0.00 mA to 400.00 mA ± (0.20	% of reading + 0.3% of	range)		
Accuracy	L range	0.00 mA to 400.00 mA ± (0.20		range)		
Accuracy	L range H, M range	0.00 mA to 400.00 mA ± (0.20 ± (0.20	% of reading + 0.3% of	range) nge)		
Accuracy	L range H, M range L range	0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49	% of reading + 0.3% of % of reading + 1% of ra	range) nge) range)		
Accuracy Parallel operation (TYP) Power disp	L range H, M range L range H, M range L range lay	0.00 mA to 400.00 mA ± (0.29 ± (0.49 ± (0.49	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of i % of reading + 5% of ra	range) nge) range) nge)		
Accuracy Parallel operation (TYP) Power disp	L range H, M range L range H, M range L range lay	0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4° ± (0.4° PLZ205W	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 0.8% of 6 of reading + 5% of ra PLZ405W	range) nge) range) nge) PLZ1205W		
Accuracy Parallel operation (TYP) Power disp	L range H, M range L range H, M range L range lay	0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4° ± (0.4° PLZ205W	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of i % of reading + 5% of ra	range) nge) range) nge) PLZ1205W		
Accuracy Parallel operation (TYP) Power disp	L range H, M range L range H, M range L range lay m	0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4° ± (0.4° PLZ205W	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 0.8% of 7 of reading + 5% of ra PLZ405W	range) nge) range) nge) PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display	L range H, M range L range H, M range L range lay m unction	0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4° ± (0.4° PLZ205W	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 0.8% of 7 of reading + 5% of ra PLZ405W	range) nge) range) nge) PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f	L range H, M range L range H, M range L range lay m unction m	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% ± (0.4% PLZ205W Displays the product o	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of % of reading + 5% of ra PLZ405W f the voltmeter reading	range) nge) range) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f	L range H, M range L range H, M range L range lay m unction m node	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% ± (0.4% PLZ205W Displays the product o	6 of reading + 0.3% of 6 of reading + 1% of ra 7 of reading + 0.8% of 7 of reading + 5% of ra 8 of reading + 5% of ra 9 LZ405W 9 LZ405W	range) nge) range) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r	L range H, M range L range H, M range L range lay m unction m node	0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 ± (0.49 PLZ205W Displays the product o PLZ205W	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz	range) nge) range) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency se	L range H, M range L range H, M range L range lay m unction m node atting range	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% ± (0.4% PLZ205W Displays the product o	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz	range) nge) range) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Display Switching f Ite Operation r Frequency se	L range H, M range L range H, M range L range lay m unction m node atting range	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% 0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of ra % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz	range) nge) range) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power display Ite Display Switching f Ite Operation r Frequency se	L range H, M range L range H, M range L range lay m unction m node atting range	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of l % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz	range) nge) range) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power display Ite Display Switching f Ite Operation r Frequency se	L range H, M range L range H, M range L range lay m unction m node atting range	0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4°) PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz 110 Hz to 1000 Hz	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz	range) nge) range) nge) PLZ1205W and ammeter reading PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency se Frequency	L range H, M range L range H, M range L range lay m unction m node setting range	0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4°) PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz 110 Hz to 1000 Hz	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz	range) nge) range) nge) PLZ1205W and ammeter reading PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency se Frequency	L range H, M range L range H, M range L range lay m unction m node setting range	0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4°) 0.00 mA to 400.00 mA ± (0.4°) 0.00 mA 10 pLZ205W 0.00 mA 11 Hz to 100 Hz 110 Hz to 100 Hz 1.1 kHz to 100 kHz 10 kHz to 100 kHz	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 KHz 0.1 Hz 0.1 Hz 0.1 KHz	range) nge) PLZ1205W and ammeter reading PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency se Frequency	L range H, M range L range H, M range L range lay m unction m node setting range	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% 2 (0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 100 Hz 11 Hz to 100 Hz 110 Hz to 100 Hz 1.1 kHz to 100 kHz 1 Hz to 100 kHz	% of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz 1Hz 10 H z z	range) nge) PLZ1205W and ammeter reading PLZ1205W PLZ1205W z, 100 kHz , 0.1% steps		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Erequency set	L range H, M range L range H, M range L range lay m unction m node etting range setting ing accuracy setting	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz 1.1 kHz to 10.0 kHz 10 kHz to 100 kHz 1 Hz to 10 Hz 11 Hz to 10 Hz	% of reading + 0.3% of % of reading + 1% of ra % of reading + 1% of ra % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz 1 Hz 1 Hz 1 Hz 	range) nge) range) PLZ1205W and ammeter reading PLZ1205W z, 100 kHz , 0.1% steps , 0.1% steps		
Accuracy Parallel operation (TYP) Power disp Tite Display Switching f Ite Operation n Frequency set Frequency set Frequency set	L range H, M range L range H, M range L range lay m unction m node etting range setting ing accuracy setting	0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 0.00 mA to 400.00 mA ± (0.49 0.49 PLZ205W Displays the product of PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 100 Hz 1 Hz to 100 Hz 1 Hz to 100 Hz 1 Hz to 100 Hz 11 Hz to 100 Hz 11 Hz to 100 Hz	% of reading + 0.3% of % of reading + 1% of ra % of reading + 1% of ra % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz 01 Hz 01 Hz 01 Hz 01 kHz 01 kHz 01 kHz 01 kHz 05% of set) 	range) nge) range) PLZ1205W and ammeter reading PLZ1205W z, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps		
Accuracy Parallel operation (TYP) Power disp Tite Display Switching fr Uperation of Frequency set Frequency set Frequency set	L range H, M range L range H, M range L range lay m unction m node etting range setting ing accuracy setting	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 100 Hz 1 Hz to 100 Hz	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 6 of reading + 5% of ra 7 PLZ405W 7 the voltmeter reading 7 PLZ405W 7 CC and CR 1.0 Hz to 100.0 kHz 	range) nge) PLZ1205W and ammeter reading PLZ1205W PLZ1205W 2, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps , 0.1% steps 6 steps		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set	L range H, M range L range H, M range L range Iay m unction m node unction m ing accuracy setting	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz 1 Hz to 100 Hz 110 Hz to 100 Hz 11 Hz to 100 Hz 110 Hz to 100 Hz 10 Hz to 100 Hz 1.1 kHz to 100 kHz	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 7 of reading + 5% of ra PLZ405W 6 the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 	z, 100 kHz , 0.1% steps , 0.		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set	L range H, M range L range H, M range L range Iay m unction m node unction m ing accuracy setting	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 100 Hz 1 Hz to 100 Hz	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 7 of reading + 5% of ra PLZ405W 6 the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 	z, 100 kHz , 0.1% steps , 0.		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Duty cycle range, step "1 The minimite	L range H, M range L range H, M range L range Iay m unction m node unction m ing accuracy setting	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz 1 Hz to 100 Hz 110 Hz to 100 Hz 11 Hz to 100 Hz 110 Hz to 100 Hz 10 Hz to 100 Hz 1.1 kHz to 100 kHz	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 7 of reading + 5% of ra PLZ405W 6 the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 	z, 100 kHz , 0.1% steps , 0.		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Duty cycle range, step "1 The minimite	L range H, M range L range H, M range L range lay m unction m node unction m node setting ing accuracy setting um time span	0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz 1 Hz to 100 Hz 110 Hz to 100 Hz 11 Hz to 100 Hz 110 Hz to 100 Hz 10 Hz to 100 Hz 1.1 kHz to 100 kHz	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 7 of reading + 5% of ra PLZ405W 6 the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 	z, 100 kHz , 0.1% steps , 0.		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Duty cycle rrange, step '1 '' The minim Slew rate Ite Ite Ite Ite Ite Ite Ite Ite Ite I	L range H, M range L range H, M range L range lay m unction m node setting range setting ing accuracy setting un time span m	0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz 1.1 kHz to 100 kHz 1 Hz to 100 Hz 110 Hz to 100 Hz 110 Hz to 100 Hz 11 Hz to 100 Hz 10 Hz to 100 Hz 10 Hz to 100 Hz 10 kHz to 100 kHz 5 us. The minimum duty of	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 7 of reading + 5% of ra 9 PLZ405W 1 the voltmeter reading 9 PLZ405W CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz 0.1 Hz 01 kHz 01 kHz 01 kHz 01 kHz 01 kHz 05% of set) 5.0% to 95.0% 5.0% to 95.0% 	range) nge) range) PLZ1205W and ammeter reading PLZ1205W PLZ1205W z, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps , 0.1% steps 6 steps 0% steps m time span.		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Duty cycle rrange, step '1 '' The minim Slew rate Ite Ite Ite Ite Ite Ite Ite Ite Ite I	L range H, M range L range H, M range L range lay m unction m node setting range setting ing accuracy setting un time span m node	0.00 mA to 400.00 mA ± (0.25 ± (0.25 ± (0.49 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 100 Hz 110 Hz to 100 Hz 11 Hz to 100 KHz is 5 us. The minimum duty of PLZ205W	6 of reading + 0.3% of 6 of reading + 1% of ra 7 of reading + 1% of ra 6 of reading + 5% of ra PLZ405W 7 the voltmeter reading PLZ405W 7 CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz 0.1 Hz 0.1 Hz 0.1 kHz 0.1 kHz 0.1 kHz 0.1 kHz 0.1 kHz 0.1 kHz 0.1 kHz 0.1 kHz 	range) nge) range) PLZ1205W and ammeter reading PLZ1205W PLZ1205W z, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps 6 steps 0% steps m time span. PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Trequency set ange, step 1 The minim Slew rate Ite Operation r	L range H, M range L range H, M range L range lay m unction m node etting range setting ing accuracy setting um time span m node H range	0.00 mA to 400.00 mA ± (0.25 ± (0.25 ± (0.49 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 110 Hz to 100 Hz 1.1 kHz to 100 Hz 110 Hz to 100 Hz 110 Hz to 100 Hz 111 Hz to 100 Hz 110 Hz to 100 Hz 110 Hz to 100 Hz 110 Hz to 100 Hz 110 Hz to 100 KHz is 5 us. The minimum duty of PLZ205W 0.01 A / µs to 10 A / µs	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 7 of reading + 5% of ra PLZ405W 6 the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz 0.1 Hz 0.1 Hz 0.1 kHz 0.1 kHz 0.1 kHz 	range) nge) PLZ1205W and ammeter reading PLZ1205W PLZ1205W PLZ1205W 2, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps 0% steps 0% steps m time span. PLZ1205W 0.06 A / µs to 60 A / µ		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Uty cycle range, step '1 The minim Slew rate Ite Operation r Setting	L range H, M range L range H, M range L range lay m unction m node etting range setting setting setting um time span m node H range M range	0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 100 Hz 110 Hz to 100 Hz 11 Hz to 100 Hz 10 Hz to 100 Hz to 100 Hz 10 Hz to 100	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 7 of reading + 5% of ra PLZ405W 7 the voltmeter reading PLZ405W 7 CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz 0.1 Hz 1 Hz 1 Hz 	range) nge) PLZ1205W and ammeter reading PLZ1205W PLZ1205W PLZ1205W 2, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps 0% steps 0% steps 0% steps m time span. PLZ1205W 0.06 A / µs to 60 A / µ 0.006 A / µs to 60 A / µ		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Uty cycle range, step '1 The minim Slew rate Ite Operation r Setting	L range H, M range L range H, M range L range lay m unction m node etting range setting ing accuracy setting setting um time span m node H range L range	0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 1.1 kHz to 100 KHz is 5 us. The minimum duty of PLZ205W 0.01 A / µs to 10 A / µs 0.01 A / µs to 100 A / µs 0.01 A / µs to 100 A / µs 0.01 A / µs to 100 M / µs	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 6 of reading + 5% of ra 7 PLZ405W 7 the voltmeter reading 7 PLZ405W 7 CC and CR 1.0 Hz to 100.0 kHz 1.0 Hz to 100.0 kHz 1.0 Hz to 100.0 kHz 1.0 Hz to 100.0 kHz 1.0 Hz 1.0 Hz to 100.0 kHz 1.0 Hz 1.0 Hz 2.0.1 Hz 1.0 Hz 2.0.1 kHz 1.0 So of set) 5.0% to 95.0% 5.0% to 95.0% 2	range) nge) PLZ1205W and ammeter reading PLZ1205W PLZ1205W 2, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps , 0.1% steps 6 steps 0% steps m time span. PLZ1205W 0.06 A / µs to 60 A / µ 0.06 A / µs to 60 M A / µ 0.8 mA / µs to 60 M A / µ		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Trequency set Cuty cycle range, step 1 The minim Slew rate Ite Operation r Setting range	L range H, M range L range H, M range L range H, M range L range lay m unction m node setting range setting setting setting setting setting h range H range L range H range	0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 1.1 kHz to 100 kHz is 5 us. The minimum duty of PLZ205W 0.01 A / µs to 10 A / µs 0.01 A / µs to 10 A / µs 0.01 A / µs to 10 A / µs	% of reading + 0.3% of % of reading + 1% of ra % of reading + 1% of ra % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 	range) nge) PLZ1205W and ammeter reading PLZ1205W PLZ1205W PLZ1205W 2, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps , 0.1% steps 6 steps 0% steps 0% steps m time span. PLZ1205W 0.06 A / µs to 60 A / µ 0.06 A / µs to 60 M A / µ 0.06 A / µs to 60 M A / µ		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Duty cycle range, step "1 The minimu Slew rate	L range H, M range L range H, M range L range lay m unction m node etting range setting ing accuracy setting setting um time span m node H range L range	0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 1.1 kHz to 100 KHz is 5 us. The minimum duty of PLZ205W 0.01 A / µs to 10 A / µs 0.01 A / µs to 100 A / µs 0.01 A / µs to 100 A / µs 0.01 A / µs to 100 M / µs	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 6 of reading + 5% of ra 7 PLZ405W 7 the voltmeter reading 7 PLZ405W 7 CC and CR 1.0 Hz to 100.0 kHz 1.0 Hz to 100.0 kHz 1.0 Hz to 100.0 kHz 1.0 Hz to 100.0 kHz 1.0 Hz 1.0 Hz to 100.0 kHz 1.0 Hz 1.0 Hz 2.0.1 Hz 1.0 Hz 2.0.1 kHz 1.0 So of set) 5.0% to 95.0% 5.0% to 95.0% 2	range) nge) range) PLZ1205W and ammeter reading PLZ1205W PLZ1205W 2, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps 6 steps 0% steps mtime span. PLZ1205W 0.06 A / µs to 60 A / µ 0.06 A / µs to 60 M / µ		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Trequency set 1 The minim Slew rate Ite Operation r Setting range	L range H, M range L range H, M range L range H, M range L range lay m unction m node setting range setting setting setting setting setting h range H range L range H range	0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 1.1 kHz to 100 kHz is 5 us. The minimum duty of PLZ205W 0.01 A / µs to 10 A / µs 0.01 A / µs to 10 A / µs 0.01 A / µs to 10 A / µs	% of reading + 0.3% of % of reading + 1% of ra % of reading + 1% of ra % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W CC and CR 1.0 Hz to 100.0 kHz 	range) nge) PLZ1205W and ammeter reading PLZ1205W PLZ1205W PLZ1205W 2, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps , 0.1% steps 6 steps 0% steps 0% steps m time span. PLZ1205W 0.06 A / µs to 60 A / µ 0.06 A / µs to 60 M A / µ 0.66 A / µs to 60 M A / µ		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation r Frequency set Frequency set Frequency set Trequency set 1 The minim Slew rate Ite Operation r Setting range	L range H, M range L range H, M range L range H, M range L range lay m unction m node setting range setting setting setting setting hode H range H range L range H range M range	0.00 mA to 400.00 mA ± (0.25 ± (0.25 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz 1.1 kHz to 100 Hz 110 Hz to 100 Hz 110 Hz to 1000 Hz 1.1 kHz to 100 Hz 0.01 A / µs to 10 A / µs 0.01 A / µs to 10 A / µs 0.01 A / µs 0.01 A / µs 0.01 A / µs	6 of reading + 0.3% of 6 of reading + 1% of ra 6 of reading + 1% of ra 7 of reading + 5% of ra 9 PLZ405W 6 the voltmeter reading 9 PLZ405W CC and CR 1.0 Hz to 100.0 kHz 	nge) range) PLZ1205W and ammeter reading PLZ1205W PLZ1205W 2, 100 kHz , 0.1% steps , 0.1% steps , 0.1% steps 6 steps 0% steps 0% steps m time span. PLZ1205W 0.06 A / µs to 60 A / µ 0.06 A / µs to 60 A / µs 0.006 A / µs to 60 M / µs 0.006 A / µs to 60 M / µs 0.006 A / µs to 60 M / µs 0.006 A / µs		

*1 The time it takes to shift	from 10% to 90% when the	current is varied from 0% to	100% of the rated current.
Soft start			
Item	PLZ205W	PLZ405W	PLZ1205W
Operation mode CC			
Time setting range	100 µs, 200 µs, 50	0 µs, 1 ms, 2 ms, 5 ms, 7	10 ms, 20 ms, or off
Time setting accuracy		± (30% of set + 10 µs)	

PLZ205W/PLZ405W/PLZ1205W Specifications

approx. 7 V	ole sensing compe	nsation voltage			Sequence function			
	Item	PLZ205W	PLZ405W	PLZ1205W	Item	PLZ205W	PLZ405W	PLZ1205W
Droto sting f	(Total potential diff	erence between the	e input terminals and	sensing terminals)	Operation mode		CC, CR, CV, CP	
Protective fun	nction				Maximum number of programs		30	
	Item	PLZ205W	PLZ405W	PLZ1205W	Maximum number of steps		10000	
Overcurrent	Setting range	0.0 A to 44.0 A	0.0 A to 88.0 A	0.0 A to 264.0 A	Step execution time		25 µs to 1000 h	
	Resolution	0.1 A	0.2 A	0.5 A	Time resolution		25 µs	
(OCP)	Protection operation	Either load	off or limitation can	be selected.	Other functions			
Overpower	Setting range	0 W to 220 W	0 W to 440 W	0 W to 1 320 W	Item	PLZ205W	PLZ405W	PLZ1205W
	Resolution	1 W	2 W	5 W	Elapsed time display	Displays	the time from load on to	load off.
(OPP)	Protection operation	Either load	off or limitation can	be selected.	Range		1s to 999h 59min 59s.	
Undervoltage	Setting range	0.	00 V to 150.00 V, or	off	Integrated current display	D	isplays integrated curre	nt.
onacivolitage	Resolution		0.01 V		Integrated power display		Displays integrated powe	
(UVP)	Protection operation		Load off				s off the load after the spe	
Watchdog	Setting range		1s to 3600s, or off		Setting range	,	1s to 3599999s, or off.	
protection(WDP)	Protection operation		Load off		[33-]			
EXT CONT co								
	Item		PLZ205W		PLZ405W		PLZ1205W	
Load on	n/off control input			able. Pulled up to 5 V b	oy a 10 kΩ resistor. The threshol	lds are HIGH: 3.5		
	e control input	The range can	•		signal. Pulled up to 5 V by a 10 kΩ			
	larm input	· ·			/. Pulled up to 5 V by a 10 kΩ res			
	aanninput				and change the input to pin 5 of the			
Alarm	n clearing input				I. Pulled up to 5 V by a 10 k Ω resisto			
Tr	igger input			0 0 0	nd 0.8 V is received. Pulled up to 5 V b			
		. 20000 0040010	1	Ū	mode through external voltage	,		
	oltage control inpu		C: The setting can be	e controlled in the rang	e of 0% to 100% of the rated cu	rrent through exter	rnal voltage input of 0 V	to 10 V.
	CR, CP mode)	CR: T	he setting can be co	ontrolled in the range of	0% to 100% of the conductance	e setting through e	external voltage input of	0 V to 10 V.
	0		P: The setting can b		ge of 0% to 100% of the rated po		nai voitage input of 0 V t	0 10 V.
F . (Setting accur	-	60V/mad		of range) (TYP value of H range	,	(
	oltage control inpu		of CV mode can be controlle	ed through external voltage inp	out. The rated voltage can be controlled in	-	6 with 0 V to 10 V. The input imp	edance is approx. 10 kΩ
(CV mode	, ootting uoou				± (1% of range) (TYP value	,		
	oltage control inpu				of CC mode by adding current t			
(superimp	osing in CC mode)		Adds current in the		% of the rated current for -10 V		impedance is approx. 10	kΩ.
	Setting accur	асу			: (1% of range) (TYP value of H	• ·		
	on status output				s on. Open-collector output fror			
Range	e status output	_	Outputs	current range state L, I	N, and H using 2 bits. Open-coll	lector output from	a photocoupler. *1	
ALA	ARM 1 output	ON when c			etection, overheat detection, alarm input detection, front-panel load terminal overcurrent			
			detection or p	•	maly detection is activated. Open-collector output from a photocoupler. *1			
	ARM 2 output				nen OCP, OPP, UVP, or WDP is			
DIGITAL 0	/ DIGITAL 1 outpu	ί	Logic signal outp	ut during a step of a se	equence. Output impedance: approx. 330 Ω , output voltage: approx. 3.3 V _{EMF}			
DIG	ITAL 2 output				put: Logic signal output during a step of a sequence. The output impedance is 330 Ω . ence and the measurement functions. The thresholds are HIGH: 2 V to 5 V, LOW: 0 V to 0.8 V			
		Input: This sig	inal is the trigger inp	•				LOW: 0 V to 0.8 V
Current	t monitor output			Outputs 0 V to 10	V for 0% to 100% of the rated of	current of each rar	ige.	
	Accuracy			±	(1% of range) (TYP value of H r	range)		
	t signal output				n when the short function is turn	ned on (30 Vdc / 1 /	A).	
1 The maximum	n voltage that can be a	pplied to the photocou	upler is 30 V. The maxim	num current is 4 mA.				
Front-panel B	3NC terminal							
Trig	gger output	Transmits 10	µs pulses when trigg	er output is ON during s	equence operation and during ste	ep execution. Trans		
~	t monitor output						mits 1 µs pulses during s	witching operation.
Curren				Outputs 0 V to 2	V for 0% to 100% of the rated c	current of each range		witching operation.
Curren	Accuracy				V for 0% to 100% of the rated c (1% of range) (TYP value of H r			witching operation.
								witching operation.
	Accuracy ation voltage				(1% of range) (TYP value of H r			witching operation.
Isola	Accuracy ation voltage			±	(1% of range) (TYP value of H r	range)	ge.	witching operation.
Isola Communicatio	Accuracy ation voltage ion function	D-SUB 9-pin	n connector Baud rai	±	(1% of range) (TYP value of H r ±30 V	range) Pv4, RJ-45 connec	ge. tor	
Isola Communicatio	Accuracy ation voltage ion function LAN			± IEEE 802,3 1001 te: 9600, 19200, 38400,	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF	range) Pv4, RJ-45 connec Stop bits: 1 bit, Pari	ge. tor ty bit: None, Flow control	None, CTS-RTS
Isola Communicatio	Accuracy ation voltage ion function LAN RS232C USB			± IEEE 802,3 1001 te: 9600, 19200, 38400,	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, 5	range) Pv4, RJ-45 connec Stop bits: 1 bit, Pari	ge. tor ty bit: None, Flow control	None, CTS-RTS
Isola Communicati General spec	Accuracy ation voltage ion function LAN RS232C USB	Complies	with the USB 2.0 spe	± IEEE 802,3 1001 te: 9600, 19200, 38400, ecification. Data rate: 4	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, 5	range) Pv4, RJ-45 connec Stop bits: 1 bit, Pari is with the USBT M	ge. tor ty bit: None, Flow control IC-USB488 device class	None, CTS-RTS
Isola Communicati General spec Input voltage ran	Accuracy ation voltage ion function LAN RS232C USB iffications	Complies	with the USB 2.0 spe	± IEEE 802,3 1001 te: 9600, 19200, 38400, ecification. Data rate: 4	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, \$ 80 Mbps (High speed) Complie	range) Pv4, RJ-45 connec Stop bits: 1 bit, Pari is with the USBT M	ge. tor ty bit: None, Flow control IC-USB488 device class	None, CTS-RTS
Isola Communicati General spec Input voltage ran Power	Accuracy ation voltage ion function LAN RS232C USB iffications nge / Input frequency ra	Complies	with the USB 2.0 spe	± IEEE 802,3 1001 te: 9600, 19200, 38400, ecification. Data rate: 4	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, \$ 80 Mbps (High speed) Complie 0 Vac to 250 Vac) single phase,	range) Pv4, RJ-45 connec Stop bits: 1 bit, Pari is with the USBT M	ge. tor ty bit: None, Flow control IC-USB488 device class : to 63 Hz	None, CTS-RTS
Isola Communicati General spec Input voltage ran Power	Accuracy ation voltage ion function LAN RS232C USB sifications nge / Input frequency ra rr consumption	Complies of	with the USB 2.0 spe	± IEEE 802,3 1001 te: 9600, 19200, 38400, ecification. Data rate: 4	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, \$ 80 Mbps (High speed) Complie 0 Vac to 250 Vac) single phase, 50 VAmax	range) Pv4, RJ-45 connec Stop bits: 1 bit, Pari is with the USBT M continuous / 47 Hz	ge. tor ty bit: None, Flow control IC-USB488 device class : to 63 Hz	None, CTS-RTS
Isola Communicati General spec Input voltage ran Power Inrush cu	Accuracy ation voltage ion function LAN RS232C USB ifications nge / Input frequency rar ir consumption irrent (peak value) Operating temperature ra	Complies v	with the USB 2.0 spe	± IEEE 802,3 1001 te: 9600, 19200, 38400, ecification. Data rate: 4	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, s 80 Mbps (High speed) Complie 0 Vac to 250 Vac) single phase, 50 VAmax 45 Apeak 0 °C to 40 °C (32 °F to 104°F	range) Pv4, RJ-45 connect Stop bits: 1 bit, Pari es with the USBT M continuous / 47 Hz	ge. tor ty bit: None, Flow control IC-USB488 device class : to 63 Hz	None, CTS-RTS
Isola Communicatia General spec Input voltage ran Power Inrush cu Environ-	Accuracy ation voltage ion function LAN RS232C USB sifications nge / Input frequency ra re consumption rrrent (peak value) Operating temperature ra Operating temperature ra	Complies in a complex in a comp	with the USB 2.0 spe	± IEEE 802,3 1001 te: 9600, 19200, 38400, ecification. Data rate: 4	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, 5 80 Mbps (High speed) Complie 0 Vac to 250 Vac) single phase, 50 VAmax 45 Apeak 0 °C to 40 °C (32 °F to 104°F 20%rh to 85%rh (no condensat	range) Pv4, RJ-45 connect Stop bits: 1 bit, Pari is with the USBT M continuous / 47 Hz =) =) tion)	ge. tor ty bit: None, Flow control IC-USB488 device class : to 63 Hz	None, CTS-RTS
Isola Communicatii General spec Input voltage ran Power Inrush cu Environ- mental	Accuracy ation voltage ion function LAN RS232C USB cifications nge / Input frequency rar r consumption rrrent (peak value) Operating temperature ra Operating temperature ra Storage temperature ra	Complies v nge nge nge	with the USB 2.0 spe	± IEEE 802,3 1001 te: 9600, 19200, 38400, ecification. Data rate: 4	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, 9 80 Mbps (High speed) Complie 0 Vac to 250 Vac) single phase, 50 VAmax 45 Apeak 0 °C to 40 °C (32 °F to 104°F 20%rh to 85%rh (no condensat -20 °C to 70 °C (-4 °F to 158°	range) Pv4, RJ-45 connect Stop bits: 1 bit, Pari s with the USBT M continuous / 47 Hz =) =) tion) F)	ge. tor ty bit: None, Flow control IC-USB488 device class : to 63 Hz	None, CTS-RTS
Isola Communicatii General spec Input voltage ran Power Inrush cu Environ- mental	Accuracy ation voltage ion function LAN RS232C USB cifications nge / Input frequency ra r consumption rrrent (peak value) Operating temperature ra Operating temperature ra Storage temperature ra Storage humidity ra	Complies v nge nge nge nge	with the USB 2.0 spe	± IEEE 802,3 1001 te: 9600, 19200, 38400, ecification. Data rate: 4 100 Vac to 240 Vac (90	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, 9 80 Mbps (High speed) Complie 0 Vac to 250 Vac) single phase, 50 VAmax 45 Apeak 0 °C to 40 °C (32 °F to 104°F 20%rh to 85%rh (no condensati -20 °C to 70 °C (-4 °F to 158° 90%rh or less (no condensati	Pv4, RJ-45 connect Stop bits: 1 bit, Pari s with the USBT M continuous / 47 Hz F) tion) F) con)	ge. tor ty bit: None, Flow control IC-USB488 device class : to 63 Hz	None, CTS-RTS
Isola Communicatii General spec Input voltage rar Power Inrush cu Environ- mental conditions	Accuracy ation voltage ion function LAN RS232C USB sifications nge / Input frequency ra r consumption rrrent (peak value) Operating humidity ra Storage temperature ra Storage humidity ra Installation locati	rige control c	with the USB 2.0 spe	± IEEE 802,3 1001 te: 9600, 19200, 38400, ecification. Data rate: 4 100 Vac to 240 Vac (90	(1% of range) (TYP value of H r ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, 9 80 Mbps (High speed) Complie 0 Vac to 250 Vac) single phase, 50 VAmax 45 Apeak 0 °C to 40 °C (32 °F to 104°F 20%rh to 85%rh (no condensat -20 °C to 70 °C (-4 °F to 158°	Pv4, RJ-45 connect Stop bits: 1 bit, Pari s with the USBT M continuous / 47 Hz F) tion) F) con)	ge. tor ty bit: None, Flow control IC-USB488 device class : to 63 Hz	None, CTS-RTS
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Isola Communicatia General spec Input voltage ran Power Inrush cu Environ- mental conditions Insulation resistance Withstand- ing volt- age Dimensions	Accuracy ation voltage ion function LAN RS232C USB ifications nge / Input frequency ra er consumption urrent (peak value) Operating temperature ra Operating temperature ra Operating temperature ra Storage temperature ra Storage temperature ra Storage temperature ra Storage humidity ra Installation locati Between primary and input tem Between primary and input tem	Complies i nge nge nge nge nge nge nge nge	214.5 (8.45 Approx. 7 kg (15.4 lb Rear-panel load input ut terminal cover, Fro	terminal cover, Load input knot	 (1% of range) (TYP value of H i ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, 3 80 Mbps (High speed) Complie 0 Vac to 250 Vac) single phase, 50 VAmax 45 Apeak 0 °C to 40 °C (32 °F to 104°F 20%rh to 85%rh (no condensati -20 °C to 70 °C (-4 °F to 158° 90%rh or less (no condensatic altitude of up to 2000 m, overvol 00 Vdc, 30 MΩ or more (70%rh control abnormalities at 1500 Vac for 1 to abnormalities at 750 Vac for 1 to abnormalities at 750 Vac for 1 for 15.75)Dmm(inches) Approx. 7.5 kg (16.5 lb.) but terminal screw set (2 sets), Scoset, External control connector 4 	Pv4, RJ-45 connect Stop bits: 1 bit, Pari is with the USBT W continuous / 47 Hz 	ge. tor ty bit: None, Flow control IC-USB488 device class to 63 Hz 85 VAmax (16.91)W×128 (5.04)H×400 Approx. 14 kg (30 anel load input terminal co 2-ROM, Quick Reference ards.	(15.75)Dmm(inches) (15.75)Dmm(in
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Isola Communicati General spec Input voltage ran Power Inrush cu Environ- mental conditions Insulation resistance Withstand- ing volt- age Dimensions Ad Electromag (E	Accuracy ation voltage ion function LAN RS232C USB ifications ige / Input frequency ra or consumption urrent (peak value) Operating temperature ra Storage temperature ra Storage temperature ra Storage humidity ra Installation locati Between primary and input ferr Between primary	Applica	214.5 (8.45 Approx. 7 kg (15.4 lb Rear-panel load input ut terminal cover, Fro EMC Directive 20 ible under the followi	terminal cover, Load input knot Complies with the 1/30/EU, EN 61326-1 ing conditions.The max	 (1% of range) (TYP value of H i ±30 V Base-TX / 10Base-T Ethernet IF 115200 bps Data length: 8 bits, 3 80 Mbps (High speed) Complie 0 Vac to 250 Vac) single phase, 50 VAmax 45 Apeak 0 °C to 40 °C (32 °F to 104°F 20%rh to 85%rh (no condensati -20 °C to 70 °C (-4 °F to 158° 90%rh or less (no condensatic altitude of up to 2000 m, overvol 00 Vdc, 30 MΩ or more (70%rh control abnormalities at 1500 Vac for 1 to abnormalities at 750 Vac for 1 to abnormalities at 750 Vac for 1 for 15.75)Dmm(inches) Approx. 7.5 kg (16.5 lb.) but terminal screw set (2 sets), Scoset, External control connector 4 	Pv4, RJ-45 connect Stop bits: 1 bit, Pari s with the USBT M continuous / 47 Hz continuous / 47 Hz =) =) tion) F) pr) bor less) minute. minute. minute. minute. irrews for the rear-parkit, Setup Guide, Y, EN wirring connected to	ge. tor ty bit: None, Flow control IC-USB488 device class to 63 Hz 85 VAmax (16.91)W×128 (5.04)H×400 Approx. 14 kg (30 anel load input terminal cr 0-ROM, Quick Reference ards. 61000-3-2, EN 61000-3 p the PLZ-5W must be left	(15.75)Dmm(inches) (15.75)Dmm(inches) 9.9 lb.) vver (2 pcs.), Front- , Safety Information

*1 Does not apply to specially ordered or modified PLZ-5Ws. *2 Limited to products that have the CE mark on their panels. *3 This is a 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 a Group 1 equipment. This product does not generate and/or use intentionally radio-frequency energy, in the form of electromagnetic cradiation, inductive and/or capacitive coupling, for the treatment of material or inspection/analysis purpose. *5 This is a Class I equipment. Be sure to ground this product is 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 con-ductivity caused by condensation.

PLZ2405WB Specifications

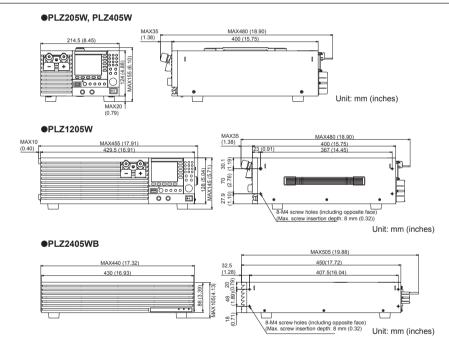
Ratings		
Ite	m	PLZ2405WB
Operating voltage		1 Vdc to 150 Vdc
Current		480 A
Pov	ver	2400 W
Current range		
H ra	nge	0 A to 480 A
M ra	nge	0 A to 48 A
L ra	nge	0 A to 4.8 A
Setting accuracy	y	
	H range	± (0.4% of set + 0.8% of range)
CC mode	M range	± (0.4% of set + 0.8% of range)
	L range	± (0.4% of set + 5% of range)
	H range	± (0.5% of set + 1.5% of range)
CR mode	M range	± (0.5% of set + 1.5% of range)
	L range	± (0.5% of set + 5% of range)
CV mode	H,M,L range	± (0.2% of set + 0.2% of range)
	H range	± (2% of range + 0.4% current range × Vin*1)
CP mode	M range	± (2% of range + 0.4% current range × Vin*1)
	L range	± (2% of range + 2.5% current range × Vin*1)
Measurement a	ccuracy	
Voltmeter	accuracy	± (0.1% of reading + 0.1% of range)
	H range	± (0.4% of reading + 0.8% of range)
Ammeter accuracy	M range	± (0.4% of reading + 0.8% of range)
accuracy	L range	± (0.4% of reading + 5% of range)
Protection funct	ions	
0 1 1		

Item		PLZ2405WB
Input power supply voltage range		100 Vac to 240 Vac (90 Vac to 250 Vac) single-phase, continuous
Input frequency range		47 Hz to 63 Hz
Power consumption		95 VAmax
Inrush c	urrent (peak value)	45 Apeak
Operating	temperature range	0 °C to 40 °C (32 °F to 104 °F)
Operati	ng humidity range	20%rh to 85%rh (no condensation)
Storage	temperature range	-20 °C to 70 °C (-4 °F to 158 °F)
Storag	e humidity range	90%rh or less (no condensation)
Installation location		Indoor use, altitude of up to 2000 m, overvoltage category II
lso	lation voltage	±500 V
	Between primary and input terminals	500 Vdc
Insulation resistance	Between primary and chassis	30 MΩ or greater
resistance	Between input terminals and chassis	(at 70%rh humidity or less)
Mith stars dia a	Between primary and input terminals	No abnormalities at 1500 Vac for 1 minute
Withstanding voltage	Between primary and chassis	No abnormalities at 1500 Vac for 1 minute
ronago	Between input terminals and chassis	No abnormalities at 750 Vdc for 1 minute
Exter	nal dimensions	430(16.93)W×86(3.39)H×450(17.72)Dmm(inches)
	Weight	Approx. 15 kg (33.07 lb)
Accessories		Power cord, Load input terminal cover, Parallel operation signal cable kit (PC01-PLZ-5W), Load input terminal screw set (2 sets), Screws for the load input terminal cover (2 pcs.), Operation manual

General specifications

Over temperature protection (OTP) Turns off the load when the heatsink temperature reaches 100 °C
*1 Vin: Load input terminal voltage or sensing terminal voltage.

Outline drawing



Sequence creation and control software

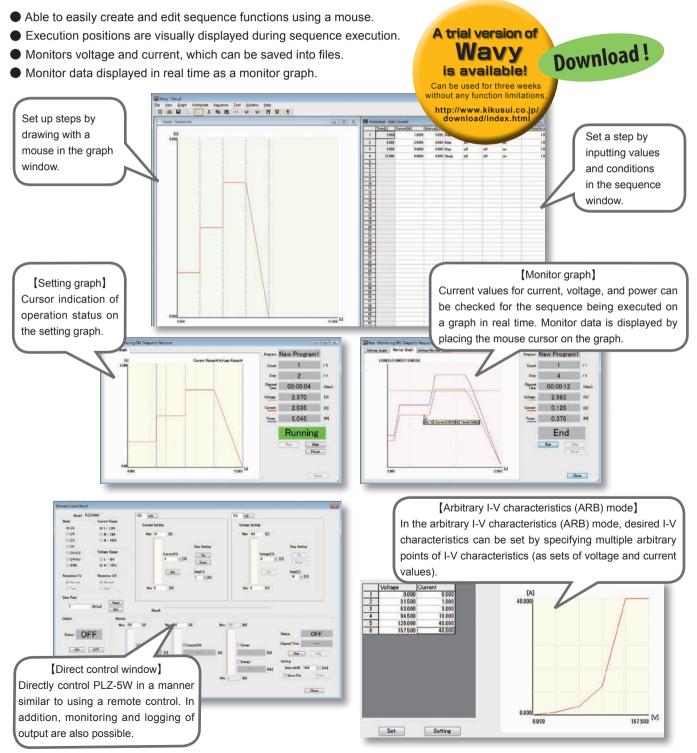
SD023-PLZ-5W (Wavy for PLZ-5W)

Make the Kikusui power supplies and electronic load more intelligent!

Expand the ideas of engineers with the sequence creation and control software " Wavy "

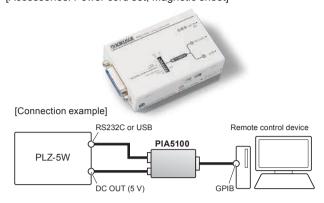
[Operating environment] Windows $7 \swarrow 10$

The SD023-PLZ-5W (Wavy for PLZ-5W) is an application software designed for sequence creation and operation of Kikusui's PLZ-5W series of DC electronic loads. It allows users to freely carry out sequence control of power supplies and electronic loads without any programming knowledge. Users can easily edit sequences as if drawing a picture or working on a spreadsheet.



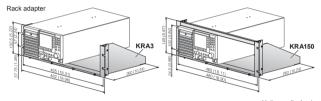
GPIB converter (PIA5100)

This converter converts RS232C or USB of the PLZ-5W to GPIB, enabling connection of a remote controller using GPIB. [Accessories: Power cord set, Magnetic sheet]

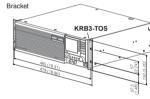


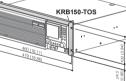
Rack adapters, brackets

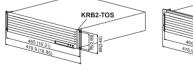
These are rack mounting options.

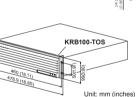


Unit: mm (inches)









Parallel operation signal cable kit (PC01-PLZ-5W)

One cable required for each slave/booster unit. Cable length : 30cm

*The PLZ2405WB (Booster) comes with 1 pc. of parallel operation cable (PC01-PLZ-5W).



Name	Model	Appropriate Model	Description
Rack adapters	adapters KRA3 PLZ205W		For EIA inch racks
*1	KRA150	PLZ405W	For JIS millimeter racks
Bracket	KRB3-TOS	PLZ1205W	For EIA inch racks
	KRB150-TOS	PLZ 1205W	For JIS millimeter racks
	KRB2-TOS		For EIA inch racks
	KRB100-TOS	PLZ2405WB	For JIS millimeter racks

*1 When using blank panels for rack adapters, please use KBP3-2.



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