

The Flagship



New

DC Electronic Load

Multifunctional Electronic Load PLZ-5W Series

Operation Voltage : 1 V to 150 V (from 0.05 V) High Speed Slew Rate : 60 A/µs Arbitrary I-V characteristics : Installed "ARB mode" Parallel Operation Feature : The total current and power capacities can be increased to the maximum of 10.8 kW (2160 A) by connecting the booster units. The Color Display is adopted to improve the visibility ! Various Communication Interfaces : LAN (LXI compliant), USB, RS232C, GPIB (Option), External Analog Control Improved Sequence Feature (Maximum 10000 steps)



The New Flagship model is born!

Succeeding with the deepen technology, introducing the new standard of Electronic Load !

High-Speed Response / Communication, Large-Scale System

The PLZ-5W Series is the high performance electronic load that took over the superb operability of the former model, "PLZ-4W", adopting with a high visibility of color display (LCD).

The PLZ-5W Series is complied with the low operation voltage from the minimum of 1 V up to the maximum voltage of 150 V and it equips with the operation mode "ARB" in addition to the conventional 6 modes (Constant Current / Constant Resistance / Constant Voltage / Constant Power / Constant Current + Constant Voltage / Constant Resistance + Constant Voltage), the "ARB" mode features



To improve accessibility, the input terminal is placed in the upper location.

to apply as "IV characteristics" mode which enables you to set the required current value against the input voltage. The high-speed response feature with the maximum slew rate of $60A/\mu s$ (PLZ1205W) and the minimum setting resolution of 10µA(PLZ205W), the PLZ5W equips with the Soft-start function, variable slew rate, selectable response (CV/CR mode), Switching function, ABC preset memory, 20 ways of set-up memories, and the Sequence feature.Because of the high-speed response, the PLZ5W can be applied to the power supply testing that requires the variable high-speed current and also for the current sensor testing. Moreover, the broad range of an external input voltage complies to the various application of testings. The PLZ-5W Series are available in 4 models and extend the system by adding the booster unit (PLZ2405W) up to 10.8 kW / 2160 A system realized at the low cost and space saving configuration. The communication interfaces are installed with the PLZ-5W Series for the LAN (LXI compliant), USB, and RS232C as standard feature, and which can be easily accommodate with the system operation.

Application Application Becondary battery. Device evaluation.





DC ELECTRONIC LOAD NEW

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	1 V 10 150 V	240 A	1200 W
PLZ2405WB		480 A	2400 W

[functions]

●Parallel Operation ●Communication function ●Current monitor output ●Variable 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 ●Trigger 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)



Allows easy-to-see display in color. The voltage value, current value, power value, current capacity value (Ah), and power capacity value (Wh) at the load input terminal are indicated on the display.



Communication interfaces are standard features

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

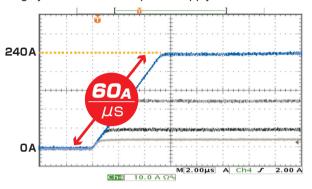


The 10 KEY entry gives flexibility of operation

Newly adopted of the 10 KEY in addition to the rotary knob. Direct entry of the setting value.

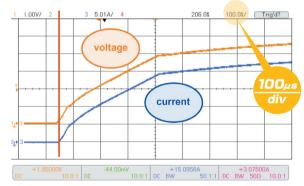
Maximum Slew Rate of 60 A/µs

Realize 4 μ s of the rise time to reach the rated current value. Applied to the fast transient response test as highly demanded in the power supply evaluation.



High speed voltage tracking characteristics

Appropriate performance for the turn-on test of the constant resistance power supply to simulate the characteristics of the resister.



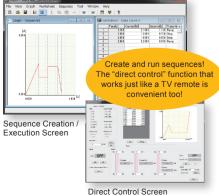
Application software

Coming Soon

Sequence Creation Software SD023-PLZ-5W

The SD023-PLZ-5W (Wavy for PLZ-5W) is an application software that supports sequence creation and the operation of the Kikusui power supplie

and the electronic load. The "Wavy" software allows you to create and edit sequences visually using a mouse without programming knowledge. It enables you to control the power supply in much the same way as remote controller for such monitoring the voltage and current, logging and so on. [See P9]



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

Operation modes

The following five operation modes are available on the PLZ-5W. Mode switching can be done only while the load is off.

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

You can set the speed of change when the current is changed. By setting the slew rate, the slew rate will function in the following cases.

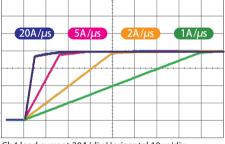
When the setting is changed to vary the current value

(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

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High precision and high resolution

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

PLZ205W op	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

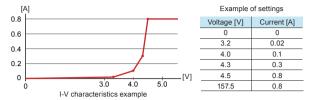
In addition to the regular operations, the following types of load on/off operations are available. You can choose any of these operations as suitable for your operating environment.

Start in the load on state

- Display of the elapsed load on time
- Auto load off after the elapse of the set time
- Load on/off control using relay and other external signals

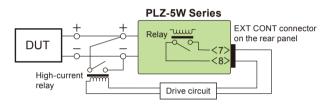
Arbitrary I-V characteristics (ARB) mode

In arbitrary I-V characteristics (ARB) mode, arbitrary I-V characteristics can be set by registering multiple I-V characteristic points (set of voltage value and current value). Three up to 100 points can be registered, and the space between two points is linearly interpolated. This mode can be used for simulation of LED loads and the like. [P7]



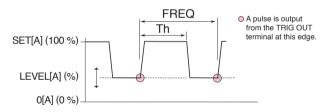
Short function

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



Switching function

In constant current and constant resistance modes, switching operations can be performed at up to 100 kHz. The switching setting parameters such as the switching level, switching frequency, and duty factor can be changed even while the load is on.



[Setting parameters]	[Setting parameters]					
Operation mode: CC an	Operation mode: CC and CR					
Frequency setting rang	Frequency setting range: 1 Hz to 100 kHz					
Frequency setting resol	Frequency setting resolution					
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

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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 0.1%
10 kHz to 100 kHz	10% to 90%, in steps of 10%

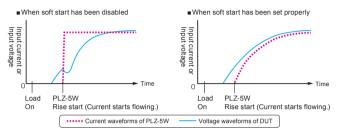
* The minimum time interval for setting the duty factor is 50 µs.

Soft start function

Soft start is a function that controls the rise time of the load current. Soft start functions only when all the following conditions are met.

- The rise time of the soft start has been set.
- Load on state in constant current (CC) mode.
- •There is an input that is equal to or exceeds the minimum operating condition, from the state where there is no input to the load input terminals.

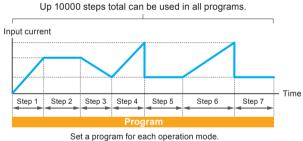
This function is used if the output of the DUT becomes unstable when the load current rises sharply, or when wishing to delay only the current change at startup to prevent the overcurrent protection circuit of the power supply from getting activated.



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

Sequence is a function that executes a sequence of operations set in advance. A sequence consists of programs and steps. A program is a collection of steps. Steps are executed in order one at a time, starting from step 1. Upon completion of the last step of a program, execution of that program has been completed once.

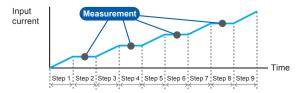


et a program for each operation mod Up to 30 programs can be set.

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 Slope
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

Using the TALink (Transient Acquire Link)'s trigger, it can synchronize the step of the sequence and enables logging data to the PLZ5W. The logged data can be acquired through the communication with the PLZ5W.



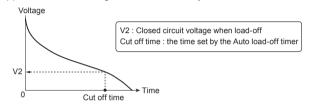
Remote sensing function

A voltage measurement point can be changed from a load input terminal to an arbitrary sensing point by executing remote sensing. By setting sensing points to a DUT end, influences such as voltage drops caused by the resistance of the load cables can be reduced and the load current can be stabilized. To use remote sensing, connect the sensing cables to the sensing terminals of the PLZ-5W and 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 specified time elapses from discharge start of the DUT. Measures the integrated power and the integrated current immediately after load off.

Applied to the discharge test of the battery.



Synchronized operation

The following synchronization features can be used by simply connecting the PLZ-5W and other equipment to be synchronized with a communication cable.

- •Turning the load on/off simultaneously for multiple equipment units.
- Synchronizing measurements (remote control).
- •Synchronizing the sequence start timing and resume timing across multiple units.

You can interconnect different PLZ-5W models (for example, PLZ205W and PLZ1205W). Synchronized operation is possible even during parallel operation.

Setup memory

The setup memory can store up to 20 sets (0 to 19) of the current conditions of the items 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 memories

Three memories A, B, and C are provided for each range in each mode, and the set values can be saved. The stored set values can be called freely even while the load is on and saved again.

In constant current + constant voltage and constant resistance + constant voltage modes, the constant current and constant voltage memories and the constant resistance and constant voltage memories can be called and saved, respectively.

Diverse protection functions, 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, Applied to the USB Keyboard.

Booster (PLZ2405WB)

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

Booster unit PLZ2405WB

Realize 2400 W in "2U" size

Connecting up to 4 units of the booster (PLZ2405WB) unit enables the system to increase the capacity combined with the master unit the PLZ1205W. (Max. 10.8 kW, 2160 A)

The optional parallel cable (PC01-PLZ-5W) is reguired to connect between the unit and for the number of units are connected.

•Extended power with operable units of the booster.

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Slave unit		2 units	3 units	4 units
PLZ2405WB	720 A 3600 W	1200 A 6000 W	1680 A 8400 W	2160 A 10800 W





[Configuration example]

 3.6 kW system combined with the PLZ1205W (upper unit) and PLZ2405W (lower unit).

•Comparison with the existing system when connecting 4 booster units.



•Large-capacity systems of 10.8 kW or more, rack-mounted systems, and other types of systems are supported. For more information, please contact our sales representatives.

External dimensions (max): 430(440)W×86(105)H×450(505)Dmm Weight: Approx. 15 kg (33.07 lb)

Parallel operation

Capable of connecting the same model up to 5 units for parallel operation system.

Without using boosters, you can connect up to five units of the same model in parallel, including the master unit (max. 6 kW, 1200 A). In the parallel connection configuration, one control master operates with one or more slave units, enabling you to control the entire system and view its data on the master unit's panel.

size

To connect the units requires the use of as many optional parallel cables (PC01-PLZ-5W) as the number of units to be connected.

*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

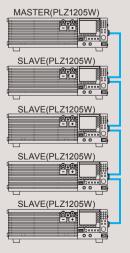
*Having the calibration for the parrallel operation system, the setting accracy of the Constant Current mode and the current measurement accuracy can be adjusted to the equivalent level of accuracy of the single unit.

Connection example Parallel operation using boosters (PLZ1205W only) MASTER(PLZ1205W) BOOSTERS(PLZ2405WB) BOOSTERS(PLZZ405WB) BOOSTERS(PLZZ4

Parallel operation signal cable

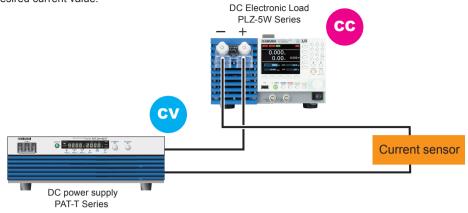
(PC01-PLZ-5W)

Parallel operation using the same type of electronic loads



Evaluation of the broadband type of current sensor (example)

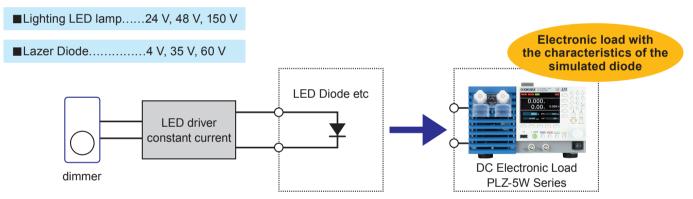
To combine with the high precision constant current power supply with the DC power supply, it can apply to the evaluation test of the current sensor. It is equipped with the 3 levels of the range setting, so the current setting accuracy can be selected to comply with the appropriate setting of the desired current value.



LED Load Simulation (Example)

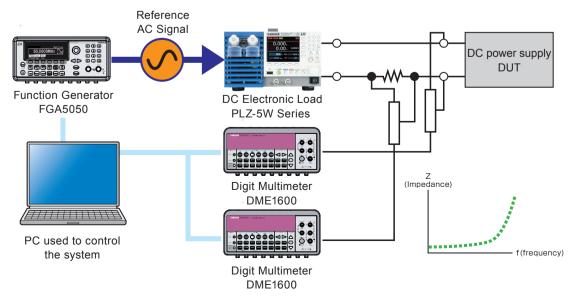
Arbitrary I-V characteristics (ARB) mode

In arbitrary I-V characteristics (ARB) mode, arbitrary I-V characteristics can be set by registering multiple I-V characteristic points (set of voltage value and current value). In the range from 3 to 100 points can be registered, and the space between two points is linearly interpolated. This mode can be used for simulation of LED loads and the like. Since it is capable to set arbitrary value of the current against the voltage input, it can apply to the test of the applied-voltage dependent type of switch.



Impedance measurement of the power supply (Example)

It corresponds various applications such as the impedance measurement system that can be configured with the function generator and the digital voltmeter.



PLZ-5W SR Large scale system SR Series (Smart Rack)

The compact design of large scale systems, SR (Smart Rack) Series are available. The input power are available in 6 kW, 10.8 kW, 15.6 kW, and 20.4 kW. The maximum input current is 2160 A. (*1200 A for PLZ6005W)

- The system offers from 6 kW to 20.4 kW, in 4 models.
- Assembled with exclusive components based on optimization design concept.
- Delivers the system with fully assembled and tested, so immediate operation is possible.
- The industry's smallest in its class for the multi-functional high-speed response DC electronic load.
- AC Input 90 V to 250 V Auto select. No special wiring is required.





The boxed type safety cover is equipped on all models.

Maximizing the Safe and Secure design of the load input terminal based on the safety features (protecting from electric shocks), but also from usability perspectives such as an easy-to-connect operation by opening the terminal cover, and capable of visual check.

Applications (example)

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

Large Current

Max. 2160 A

6 kW to 20.4 kW

● 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

PLZ-5W SR Series

Sp	pecifications		Rating			Constant curre	ent mode (CC)			Constant volta	age mode (CV)	
	Model	Operating voltage	Current	Power	(Operating range	e	Ripple	Operatir	ng range	Reso	lution
	woder	V	А	W	H range (A)	M range (A)	L range (A)	mArms*	H range (V)	L range (V)	H range (mV)	L range (mV)
PL			1200	6000	0 to 1260	0 to 126	0 to 12.6	120				
PLZ	Z10005W SR	1 to 150		10800	0 to 2268	0 to 226.8	0 to 22.68	216	0 to 157.50	0 to 15.750	5	0.5
PLZ	Z15005W SR	110150	2160	15600	0 to 3276	0 to 327.6	0 to 32.76	312	010157.50	01015.750	5	0.5
PLZ	Z20005W SR			20400	0 to 4284	0 to 428.4	0 to 42.84	408				

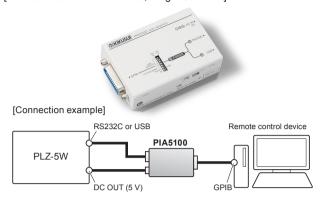
Specifications	Con	Constant resistance mode (CR)		Constant power mode (CP)			Weight	Power consumption
Model		Operating range			Operating range		Approx.	Approx.
Model	H range (S)	M range (S)	L range (S)	H range (W)	M range (W)	L range (W)	kg	VA
PLZ6005W SR	1260 to 0	126 to 0	12.6 to 0	0 to 6300	0 to 630	0 to 63.0	82	275
PLZ10005W SR	2268 to 0	226.8 to 0	22.68 to 0	0 to 11340	0 to 1134	0 to 113.4	120	465
PLZ15005W SR	3276 to 0	327.6 to 0	32.76 to 0	0 to 16380	0 to 1638	0 to 163.8	160	655
PLZ20005W SR	4284 to 0	428.4 to 0	42.84 to 0	0 to 21420	0 to 2142	0 to 214.2	200	855
	* Measurement frequency bandwidth: 10 Hz to 1 MHz At measurement current 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			65	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	

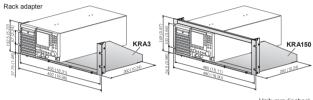
GPIB converter (PIA5100)

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]



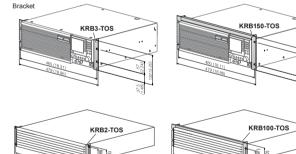
Rack adapters, brackets

These are rack mounting options.



Unit: mm (inches)

Unit: mm (inches)



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

Application software

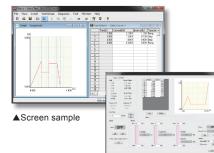
Sequence creation software



Coming Soon Sequence creation software Wavy for the PLZ-5W (SD023-PLZ-5W)

[Operating environment] Windows 7 / Windows 8.1 / Windows 10 *For details, please refer to our web site

The software that further enhances the waveform generation and sequence functions. Using a mouse, you can create and edit feel like drawing and filling out the spreadsheet.



- Creating and editing data of test conditions required so that the sequence operation can be done easily.
- Using the save function for data files of test conditions makes routine test condition control easy. The progress of executed sequences is displayed by the cursor and settings on an "execution graph."
- It is possible to observe actual output intuitively, using a "monitor graph" that plots monitored values while an execution
- is in progress
- Acquired monitor data can be saved as test results.
- A "waveform image" window was newly added, making it easy to see the waveforms of alternating current (AC) signals.
- Arbitrary new waveforms can be easily created and edited. Also, arbitrary waveforms that are created can be quickly written and output.
- The product supports the selection and nonselection of sequence step items. Functions such as the pause function, trigger function, and AC waveform can be selected as needed.

Download!

Trial version is available on our web !!

http://www.kikusui.co.jp/en/download/index.html

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

The number of cables are required for the number of connecting units. Cable length : 30cm

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



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	
and the second state to second a state	· · · · · · · · · · · · · · · · · · ·	A A Const the succession of	and the second terms of the sheet terms

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.

nstant cu	urrent (CC)	mode				
Ite	m	PLZ205W	PLZ405W	PLZ1205W		
	H range	0 A to 40 A	0 A to 80 A	0 A to 240 A		
0	M range	0 A to 4 A	0 A to 8 A	0 A to 24 A		
L range		0 A to 0.4 A	0 A to 0.8 A	0 A to 2.4 A		
	H range	0 A to 42 A	0 A to 84 A	0 A to 252 A		
0	M range	0 A to 4.2 A	0 A to 8.4 A	0 A to 25.2 A		
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		
solution	M range	0.1 mA	0.2 mA	0.5 mA		
L range		0.01 mA	0.02 mA	0.05 mA		
	H range	± (0.2% of set + 0.1% of range)				
	M range	± (0.2% of set + 0.3% of range)				
Surdoy	L range	± (0.2% of set + 1% of range)				
	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)				
ut line re	gulation *1	4 mA	8 mA	24 mA		
	rms *2	4 mA	8 mA	24 mA		
phe	р-р *3	40 mA	80 mA	200 mA		
	Ite erating nge tting solution solution tting curacy Parallel operation	Item Hrange Hrange Hrange Lrange Hrange Hrange Hrange Hrange Hrange Hrange Hrange Hrange Hrange Hrange Hrange Hrange Hrange Hrange Hrange Urange Hrange Hrange urange Hrange Urange Hrange Urange Hrange Urange Hrange Urange Hrange Urange Hrange Urange Hrange Hrange Hrange Trange Hrange Hrange Hrange Urange Hrange Hrange Trange Hrange Hrange Trange Hrange	$\begin{array}{c c} \mbox{H} range & 0 \mbox{A} to 40 \mbox{A} \\ \hline \mbox{M} range & 0 \mbox{A} to 4 \mbox{A} \\ \hline \mbox{L} range & 0 \mbox{A} to 0.4 \mbox{A} \\ \hline \mbox{L} range & 0 \mbox{A} to 0.4 \mbox{A} \\ \hline \mbox{H} range & 0 \mbox{A} to 4.2 \mbox{A} \\ \hline \mbox{M} range & 0 \mbox{A} to 4.2 \mbox{A} \\ \hline \mbox{L} range & 0 \mbox{A} to 0.42 \mbox{A} \\ \hline \mbox{H} range & 1 \mbox{m} \mbox{A} \\ \hline \mbox{H} range & 0.1 \mbox{m} \mbox{A} \\ \hline \mbox{H} range & 0.1 \mbox{m} \mbox{A} \\ \hline \mbox{H} range & \pm (0.2\% \mbox{M} range & \pm (0.2\% \mbox{H} range & \pm (0.2\% \mbox{H} range & \pm (0.2\% \mbox{M} range & \pm (0.2\% \mbox{M} range & \pm (0.2\% \mbox{M} range & \pm (0.4\% \$	Item PLZ205W PLZ405W H range 0 A to 40 A 0 A to 80 A M range 0 A to 40 A 0 A to 80 A Irange 0 A to 40 A 0 A to 80 A L range 0 A to 0.4 A 0 A to 8 A L range 0 A to 0.4 A 0 A to 8 A H range 0 A to 42 A 0 A to 84 A M range 0 A to 42 A 0 A to 84 A M range 0 A to 0.42 A 0 A to 84 A L range 0 A to 0.42 A 0 A to 0.84 A H range 1 mA 2 mA solution M range 0.1 mA 0.2 mA L range 0.01 mA 0.02 mA H range ± (0.2% of set + 0.3% of range) L range ± (0.2% of set + 0.3% of range) L range ± (0.2% of set + 0.8% of range) M range ± (0.4% of set + 0.8% of range) L range ± (0.4% of set + 0.8% of range) ut line regulation *1 4 mA 8 mA		

*1 When the input voltage is changed from 1 V to 150 V at a current of rated power / 150 V. *2 Measurement 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		of set + 1.5% of range)		
operation	M range	± (0.5%	of set + 1.5% of range)		
	L range		of set + 5% of range)		
	*1 Conductance [S] = input current [A]/input voltage [V] = 1 / resistance [Ω]				

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

Constant v	oltage (CV)	mode		
Ite	m	PLZ205W PLZ405W PLZ1205		PLZ1205W
Operating	H range	1 V to 150 V		
range	L range	1 V to 15 V		
Setting	H range	0 V to 157.5 V		
range	L range	0 V to 15.75 V		
Resolution	H range	5 mV 0.5 mV		
Resolution	L range			
Setting		± (0.1% of set + 0.1% of range)		
accuracy Parallel *1 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).

Constant po	Jwer (CP) r					
Ite		PLZ205W	PLZ405W	PLZ1205W		
	H range	20 W to 200 W	40 W to 400 W	120 W to 1200 W		
Operating	M range	2 W to 20 W	4 W to 40 W	12 W to 120 W		
range	L range	0.2 W to 2 W	0.4 W to 4 W	1.2 W to 12 W		
	H range	0 W to 210 W	0 W to 420 W	0 W to 1260 W		
Setting	M range	0 W to 21 W	0 W to 42 W	0 W to 126 W		
range	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		
Setting	H range	+ 0.04 A × Vin)	+ 0.08 A × Vin)	+ 0.24 A × Vin)		
accuracy	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)		
	H range	± (2% of range + 0.4% current range × Vin)				
Parallel operation	M range	± (2% of	range + 0.4% current ran	ige × Vin)		
L range		± (2% of	range + 2.5% current ran	ige × Vin)		
*1 Vin: The vo	oltage at the I	oad input terminals on the r	ear panel or sensing termin	als.		
Arbitrary I-	V characte	ristics (ARB) mode				
Ite	m	PLZ205W	PLZ405W	PLZ1205W		
Operating r	ange		current values can be s o points is linearly interp			
Response s	speed	Response for input vol				
Voltmeter	,					
Ite	m	PLZ205W	PLZ405W	PLZ1205W		
	H range	1 2220011	0.00 V to 150.00 V	1 22 120011		
Display	L range		0.000 V to 15.000 V			
Accuracy	Liango	+ (0.1	% of reading + 0.1% of	range)		
	operation (TYP)		% of reading + 0.1% of			
Ammeter		1 (0.1	to or reading + 0.170 or	range)		
Ite	m	PLZ205W	PLZ405W	PLZ1205W		
	111	FLZZUJW	FLZ403W	FLZIZUJW		
	Hrange	0.000 A to 40.000 A	0.000 A to 80.000 A	0.00 A to 240.00 A		
Diaplay	H range	0.000 A to 40.000 A	0.000 A to 80.000 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	M range L range	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA	0.000 A to 24.000 A 0.0000 A to 2.4000 A		
	M range L range H, M range	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.20	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of	0.000 A to 24.000 A 0.0000 A to 2.4000 A range)		
Display Accuracy	M range L range H, M range L range	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge)		
	M range L range H, M range	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of	nge)		
Accuracy Parallel	M range L range H, M range L range	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range)		
Accuracy Parallel operation	M range L range H, M range L range H, M range L range	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range)		
Accuracy Parallel operation (TYP)	M range L range H, M range L range H, M range L range lay	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range)		
Accuracy Parallel operation (TYP) Power disp Ite	M range L range H, M range L range H, M range L range lay	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 ± (0.49 PLZ205W	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of ra % of reading + 5% of ra	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display	M range L range H, M range L range H, M range L range lay m	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 ± (0.49 PLZ205W	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of ra % of reading + 5% of ra PLZ405W	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display	M range L range H, M range L range L range lay m	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 ± (0.49 PLZ205W	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of ra % of reading + 5% of ra PLZ405W	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f	M range L range H, M range L range L range lay m unction m	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4°) ± (0.4°) PLZ205W Displays the product o	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of r % of reading + 5% of ra PLZ405W f the voltmeter reading	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n	M range L range H, M range L range H, M range L range lay m unction m	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4°) ± (0.4°) PLZ205W Displays the product o	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of r % of reading + 5% of ra PLZ405W f the voltmeter reading PLZ405W	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n	M range L range H, M range L range H, M range L range lay m unction m	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.2° ± (0.2° ± (0.4°) ± (0.4°) PLZ205W Displays the product o	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n	M range L range H, M range L range H, M range L range lay m unction m	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.49 ± (0.49 PLZ205W Displays the product o PLZ205W	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency se	M range L range H, M range L range H, M range L range lay m unction m node stiting range	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 0.1 Hz	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency se	M range L range H, M range L range H, M range L range lay m unction m node stiting range	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.49 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency se	M range L range H, M range L range H, M range L range lay m unction m node stiting range	0.0000 A to 4.0000 A 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 110 Hz to 1000 Hz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency se Frequency se	M range L range H, M range L range H, M range L range lay m unction m node setting range	0.0000 A to 4.0000 A 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 110 Hz to 1000 Hz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency se Frequency se	M range L range H, M range L range H, M range L range lay m unction m node setting range	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 100 Hz 11 Hz to 100 Hz 110 Hz to 100 kHz 1.1 kHz to 100 kHz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading PLZ1205W		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency set	M range L range H, M range L range H, M range L range lay m unction m node setting range setting	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.2% ± (0.2% ± (0.4% 0.4% PLZ205W Displays the product o PLZ205W 1 Hz to 100 Hz 110 Hz to 100 Hz 1.1 kHz to 100 kHz 1 Hz to 100 kHz 1 Hz to 100 kHz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % 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 z0.1 kHz 1 kHz 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) PLZ1205W and ammeter reading PLZ1205W 2, 100 kHz 0, 0.1% steps		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency set Frequency set Frequency set	M range L range H, M range L range L range L range lay m unction m node setting range setting ing accuracy setting	0.0000 A to 4.0000 A 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 10 kHz to 100 kHz 1 Hz to 10 Hz 11 Hz to 10 Hz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading PLZ1205W z, 100 kHz z, 100 kHz o, 0.1% steps o, 0.1% steps		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency set Frequency set Frequency set	M range L range H, M range L range L range L range lay m unction m node setting range setting ing accuracy setting	0.0000 A to 4.0000 A 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 1.1 kHz to 100 kHz 1 Hz to 100 Hz 1 Hz to 10 Hz 11 Hz to 100 Hz 1 Hz to 100 Hz 1 Hz to 100 Hz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 0.1 Hz 0.1 Hz 0.1 kHz 0.1 kHz 0.1 kHz 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading PLZ1205W z, 100 kHz c, 100 kHz o, 0.1% steps o, 0.1% steps o, 0.1% steps		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching fr Ite Operation n Frequency set Frequency set Frequency set	M range L range H, M range L range L range L range lay m unction m node setting range setting ing accuracy setting	0.0000 A to 4.0000 A 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 10 Hz 11 Hz to 10 Hz 11 Hz to 100 Hz 110 Hz to 1000 Hz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range) PLZ1205W and ammeter reading PLZ1205W z, 100 kHz z, 100 kHz o, 0.1% steps o, 0.1% steps o, 0.1% steps 6 steps		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation in Frequency set Frequency set Frequency set	M range L range H, M range L range H, M range L range lay m unction m mode setting range setting ing accuracy	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.49 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 1.1 kHz to 100 kHz 1 Hz to 100 Hz 110 Hz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 kHz 1.1 kHz to 100 kHz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 0.1 Hz 0.1 Hz 0.1 kHz 0.1 kHz 0.1 kHz 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range) PLZ1205W and ammeter reading PLZ1205W 2, 100 kHz 2, 100 kHz 0, 0.1% steps 0, 0.1% steps 6 steps 0% steps 0% steps		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation in Frequency set Frequency set Frequency set Duty cycle range, step	M range L range H, M range L range H, M range L range lay m unction m mode setting range setting ing accuracy	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.49 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 1.1 kHz to 100 kHz 1 Hz to 100 Hz 110 Hz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 kHz 1.1 kHz to 100 kHz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range) PLZ1205W and ammeter reading PLZ1205W 2, 100 kHz 2, 100 kHz 0, 0.1% steps 0, 0.1% steps 6 steps 0% steps 0% steps		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency set Frequency set Frequency set Duty cycle range, step *1 The minimu Slew rate	M range L range H, M range L range H, M range L range lay m unction m mode setting range setting ing accuracy setting	0.0000 A to 4.0000 A 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 1.1 kHz to 100 kHz 1 Hz to 100 Hz 1.1 kHz to 100 kHz 1 Hz to 100 Hz 1.1 kHz to 100 kHz 1.1 kHz to 100 kHz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) PLZ1205W and ammeter reading PLZ1205W 2, 100 kHz 0, 0.1% steps 0, 0.1% steps 0, 0.1% steps 0, 0.1% steps 0% steps 0% steps 100 kHz		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency set Frequency set Frequency set Trequency set T	M range L range H, M range L range H, M range L range lay m unction m node setting range setting ing accuracy setting arcuracy setting m	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.49 ± (0.49 PLZ205W Displays the product o PLZ205W 1 Hz to 10 Hz 11 Hz to 100 Hz 1.1 kHz to 100 kHz 1 Hz to 100 Hz 110 Hz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 kHz 1.1 kHz to 100 kHz	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range) PLZ1205W and ammeter reading PLZ1205W 2, 100 kHz 2, 100 kHz 0, 0.1% steps 0, 0.1% steps 6 steps 0% steps 0% steps		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency set Frequency set Frequency set Trequency set T	M range L range H, M range L range L range lay m unction m node setting setting setting setting un accuracy setting m m m	0.0000 A to 4.0000 A 0.00 mA to 400.00 mA ± (0.29 ± (0.29 ± (0.49 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 Hz 11 Hz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 kHz is 5 us. The minimum duty of PLZ205W	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 0.1 Hz 0.1 kHz 0.1 kHz 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range) nge) PLZ1205W and ammeter reading PLZ1205W z, 100 kHz o, 0.1% steps o, 0.1% steps o, 0.1% steps o, 0.1% steps o, 0.1% steps o, 0.1% steps m time span.		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching ff Ite Operation m Frequency set Frequency set Frequency set Frequency set Trequency set ange, step *1 The minimus Slew rate Ite Operation n	M range L range H, M range L range L range lay m unction m node etting range setting ing accuracy setting m mutime span m node H range	0.0000 A to 4.0000 A 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 10 kHz to 100 kHz is 5 us. The minimum duty of PLZ205W 0.01 A / µs to 10 A / µs	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 0.8% of ra % of reading + 5% of ra PLZ405W CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz 0.1 Hz 0.1 kHz 0.1 kHz 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) nge) PLZ1205W and ammeter reading PLZ1205W z, 100 kHz c, 100 kHz		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency set Frequency set Frequency set Frequency set Steven set 1 The minimum Slew rate Ite Operation n Setting	M range L range H, M range L range H, M range L range lay m unction m node etting range setting ing accuracy setting setting m node H range M range	0.0000 A to 4.0000 A 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 Hz 110 Hz to 100 Hz 11 Hz to 100 Hz 10 Hz to 100 Hz to 100 Hz 10 Hz to 100 Hz to 10	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 1% of ra % of reading + 5% of ra PLZ405W CC and CR 1.0 Hz to 100.0 kHz 0.1 Hz 0.1 Hz 0.1 kHz 0.1 kHz 0.1 kHz 0.1 kHz 0.1 kHz 0.1 kHz 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range) nge) PLZ1205W and ammeter reading PLZ1205W 2, 100 kHz 2, 100 kHz 3, 0.1% steps 4, 0.1% steps 5, 0.1% steps 6, 0.1% steps 6, 0.1% steps 1, 0.1% steps 6, 0.1% steps 1, 0.0% steps 1, 0.		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation n Frequency set Frequency set Frequency set Frequency set Steven set 1 The minimum Slew rate Ite Operation n Setting	M range L range H, M range L range H, M range L range lay m unction m node etting range setting setting setting setting m node H range M range L range	0.0000 A to 4.0000 A 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 Hz 110 Hz to 100 Hz 111 Hz to 100 Hz 111 Hz to 100 Hz 111 Hz to 100 Hz 110 Hz to 100 Hz 10 kHz to 100 kHz. 5 us. The minimum duty of PLZ205W 0.01 A / µs to 10 A / µs 0.001 A / µs to 10 A / µs 0.1 mA / µs to 100 mA / µs	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 0.1 Hz 0.1 kHz 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range) PLZ1205W and ammeter reading PLZ1205W 2, 100 kHz 2, 100 kHz 2, 100 kHz 4, 0.1% steps 5, 0.1% steps 6, 0.1% steps 6, 0.1% steps 6, 0.1% steps 7, 0.1% steps 6, 0.1% steps 10, 0.06 A / µs to 60 A / µs to 600 M A		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation in Frequency set Frequency set Frequency set Frequency set Tresolution Frequency set The minimum Slew rate Ite Operation in Setting range	M range L range H, M range L range H, M range L range aunction m node etting range setting ing accuracy setting setting arm time span m node H range H range H range	0.0000 A to 4.0000 A 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 Hz 11 Hz to 100 Hz 10 Hz to 100 Hz 10 Hz to 100 Hz 0.0 HA / µs to 10 A / µs 0.01 A / µs to 10 A / µs 0.01 A / µs	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 1% of ra % of reading + 5% of ra PLZ405W CC and CR 1.0 Hz to 100.0 kHz 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) PLZ1205W and ammeter reading PLZ1205W PLZ1205W 2, 100 kHz 2, 100 kHz 2, 100 kHz 4, 0.1% steps 5, 0.1% steps 6, 0.1% steps 6, 0.1% steps 6, 0.1% steps 6, 0.1% steps 10, 0.1% steps 6, 0.1% steps 10, 0.06 A / µs to 60 A / µs 10, 0.06 A / µs to 600 mA / µs 10, 0.06 A / µs to 600 mA / µs 10, 0.06 A / µs to 600 mA / µs 10, 0.06 A / µs		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation in Frequency set Frequency set Frequency set Frequency set Tresolution Frequency set The minimum Slew rate Ite Operation in Setting range	M range L range H, M range L range H, M range L range lay m unction m node etting range setting setting setting setting m node H range M range L range	0.0000 A to 4.0000 A 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 Hz 110 Hz to 100 Hz 1 Hz to 100 Hz 1.1 kHz to 100 Hz 1 Hz to 100 Hz 1 Hz to 100 Hz 0 Hz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 0.0 Hz to 100 kHz 1.1 kHz to 100 kHz 0.0 Hz to 100 kHz 1.1 kHz to 100 kHz 0.0 Hz to 100 A J ys 0.01 A / µs to 10 A / µs 0.01 A / µs to 10 A / µs 0.01 A / µs	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 	0.000 A to 24.000 A 0.0000 A to 24.000 A range) nge) range) nge) PLZ1205W and ammeter reading PLZ1205W 2, 100 kHz 2, 100 kHz 4, 0.1% steps 5, 0.1% steps 6, 0.1% steps 6, 0.1% steps 6, 0.1% steps 10, 0.1% steps 6, 0.1% steps 10, 0.0% A / µs to 60 A / µs 10, 0.06 A / µs to 60 M A / µs 10, 0.06 A / µs to 60 A / µs 10, 0.06 A / µs to 60 A / µs 10, 0.06 A / µs to 60 A / µs 10, 0.06 A / µs		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation in Frequency set Frequency set Frequency set Frequency set Tresolution Frequency set The minimum Slew rate Ite Operation in Setting range	M range L range H, M range L range H, M range L range aunction m node etting range setting ing accuracy setting setting arm time span m node H range H range H range	0.0000 A to 4.0000 A 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 Hz 11 Hz to 100 Hz 10 Hz to 100 Hz 10 Hz to 100 Hz 0.0 HA / µs to 10 A / µs 0.01 A / µs to 10 A / µs 0.01 A / µs	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % of reading + 0.3% of % of reading + 1% of ra % of reading + 1% of ra % of reading + 5% of ra PLZ405W CC and CR 1.0 Hz to 100.0 kHz 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) PLZ1205W and ammeter reading PLZ1205W PLZ1205W 2, 100 kHz 2, 100 kHz 2, 100 kHz 4, 0.1% steps 5, 0.1% steps 6, 0.1% steps 6, 0.1% steps 6, 0.1% steps 6, 0.1% steps 10, 0.1% steps 6, 0.1% steps 10, 0.06 A / µs to 60 A / µs 10, 0.06 A / µs to 600 mA / µs 10, 0.06 A / µs to 600 mA / µs 10, 0.06 A / µs to 600 mA / µs 10, 0.06 A / µs		
Accuracy Parallel operation (TYP) Power disp Ite Display Switching f Ite Operation in Frequency set Frequency set Frequency set Duty cycle range, step *1 The minimu Slew rate	M range L range H, M range L range H, M range L range aunction m node etting range setting setting setting setting m node H range M range L range H range M range	0.0000 A to 4.0000 A 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 11 Hz to 100 Hz 1.1 kHz to 100 Hz 1.1 kHz to 100 Hz 110 Hz to 100 Hz 1.1 kHz 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 0.001 A / μs to 10 A /μs 0.001 A / μs 0.001 A / μs 0.001 A / μs	0.0000 A to 8.0000 A 0.00 mA to 800.00 mA % 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 	0.000 A to 24.000 A 0.0000 A to 2.4000 A range) nge) range) nge) PLZ1205W and ammeter reading PLZ1205W 2, 100 kHz 2, 100 kHz 2, 100 kHz 4, 0.1% steps 5, 0.1% steps 6, 0.1% steps 6, 0.1% steps 0, 0.06 A / µs to 60 A / µ 0.006 A / µs to 600 mA / µs 0.006 A / µs		

Soft start				
Item	PLZ205W PLZ405W PLZ1205W			
Operation mode	CC			
Time setting range	100 μs, 200 μs, 500 μs, 1 ms, 2 ms, 5 ms, 10 ms, 20 ms, or off			
Time setting accuracy		± (30% of set + 10 µs)		

PLZ205W/PLZ405W/PLZ1205W Specifications

Protective function Item Overcurrent protection (OCP) Protection (OPP) Protection (OPP) Protection (UVP) Pro	ing range 0. olution 0. iction operation 0. ing range 0. olution 0. ing range 0. olution 0. ing range 0. olution 0. ing range 0. iction operation 0. ing range 0. iction operation 0. ing range 0. iction operation 0. ing range 0. iction operation 0. ing range 0. ing	The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	PLZ1205W 0.0 A to 264.0 A 0.5 A be selected. 0 W to 1 320 W 5 W be selected. off f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Dis Dis Automatically turns o ds are HIGH: 3.5 V to	PLZ405W CC, CR, CV, CP 30 10000 25 μs to 1000 h 25 μs PLZ405W he time from load on to 1s to 999h 59min 59s. splays integrated currer splays integrated currer splays integrated powe off the load after the spe- 1s to 3599999s, or off. PLZ1205W	ıt. r.	
Protective function Item Overcurrent protection (OCP) Protection (OPP) Protection (OPP) Protection (UVP) Pro	ing range 0. olution 0. iction operation 0. ing range 0. olution 0. ing range 0. olution 0. ing range 0. olution 0. ing range 0. iction operation 0. ing range 0. iction operation 0. ing range 0. iction operation 0. ing range 0. iction operation 0. ing range 0. ing	PLZ205W PLZ405W DA to 44.0 A 0.0 A to 88.0 A 0.1 A 0.2 A Either load off or limitation can W to 220 W 0 W to 440 W 1 W 2 W Either load off or limitation can 1.0 V to 150.0 V, or co 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is activated. Paused sequence operation resumes wh Controls the load	PLZ1205W 0.0 A to 264.0 A 0.5 A be selected. 0 W to 1 320 W 5 W be selected. off f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Maximum number of programs Maximum number of steps Step execution time Time resolution Other functions Item Elapsed time display Range Integrated current display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Displays ti Dis Dis Automatically turns of 1 ds are HIGH: 3.5 V to	30 10000 25 µs to 1000 h 25 µs PLZ405W he time from load on to 1s to 999h 59min 59s. splays integrated currer splays integrated powe off the load after the spe- 1s to 3599999s, or off.	load off. nt. r.	
Item Overcurrent protection (OCP) Protec Overpower protection (OPP) Protec Undervoltage protection (UVP) Protec Watchdog protection(WDP) Protec EXT CONT connect EXT CONT connect Alarm item Alarm clear Trigger External voltage (CC, CR, C	ing range 0.1 olution 0 olution	0 A to 44.0 A 0.0 A to 88.0 A 0.1 A 0.2 A Either load off or limitation can W to 220 W 1 W 2 W Either load off or limitation can 1.0 V to 150.0 V, or c 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated, the alarm is c Paused sequence operation resumes wh Controls the load	0.0 A to 264.0 A 0.5 A be selected. 0 W to 1 320 W 5 W be selected. off f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Maximum number of steps Step execution time Time resolution Other functions Item Elapsed time display Integrated current display Integrated power display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Displays ti Dis Dis Automatically turns of 1 ds are HIGH: 3.5 V to	10000 25 μs to 1000 h 25 μs PLZ405W he time from load on to 1s to 999h 59min 59s. splays integrated currer splays integrated powe off the load after the spei 1s to 3599999s, or off.	load off. nt. r.	
Overcurrent protection (OCP) Overpower protection (OPP) Undervoltage protection (UVP) Watchdog protection(WDP) EXT CONT connect Load on/off cc Range cont Alarm i Alarm clear Trigger External voltage (CC, CR, C	olution ing range 0 olution ing range 0 olution ing range olution ing range olution ing range cition operation ing range cition operation ing range cition operation cition operation cition operation cition m control input input input ring input r input e control input	0 A to 44.0 A 0.0 A to 88.0 A 0.1 A 0.2 A Either load off or limitation can W to 220 W 1 W 2 W Either load off or limitation can 1.0 V to 150.0 V, or c 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated, the alarm is c Paused sequence operation resumes wh Controls the load	0.0 A to 264.0 A 0.5 A be selected. 0 W to 1 320 W 5 W be selected. off f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Step execution time Time resolution Other functions Item Elapsed time display Integrated current display Integrated power display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Displays ti Dis Dis Automatically turns of 1 ds are HIGH: 3.5 V to	25 µs to 1000 h 25 µs PLZ405W he time from load on to 1s to 999h 59min 59s. splays integrated currer splays integrated powe off the load after the spen 1s to 3599999s, or off.	load off. nt. r.	
Protection (OCP) Reso Protection Overpower protection Settin Reso (OPP) Undervoltage protection Protec Undervoltage protection Reso (UVP) Watchdog protection(WDP) Protec Ext CONT connect Item Load on/off cc Alarm clear Trigger External voltage (CC, CR, C S External voltage (CV m S	olution ing range 0 olution ing range 0 olution ing range olution ing range olution ing range cition operation ing range cition operation ing range cition operation cition operation cition operation cition m control input input input ring input r input e control input	0.1 A 0.2 A Either load off or limitation can W to 220 W 0 W to 440 W 1 W 2 W Either load off or limitation can 1.0 V to 150.0 V, or c 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarn is c Paused sequence operation resumes wh Controls the load	0.5 A be selected. 0 W to 1 320 W 5 W be selected. off f f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Time resolution Other functions Item Elapsed time display Integrated current display Integrated power display Auto load off timer Setting range PLZ405W y a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Displays ti Dis Dis Automatically turns of 1 ds are HIGH: 3.5 V to	25 µs PLZ405W he time from load on to 1s to 999h 59min 59s. splays integrated currer splays integrated powe off the load after the spe- 1s to 3599999s, or off.	load off. nt. r.	
protection (OCP) Protec Overpower protection (OPP) Protec Undervoltage protection (UVP) Protec Watchdog protection(WDP) Settin protection(WDP) Protec EXT CONT connect Load on/off cc Range cont Alarm i Alarm clear Trigger External voltage (CC, CR, C	ction operation ing range 0 olution operation ing range olution ection operation ing range ction ection operation scheme ction ection operation ction operation ction ection operation ction cti	Either load off or limitation can W to 220 W 0 W to 440 W 1 W 2 W Either load off or limitation can 1.0 V to 150.0 V, or c 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	be selected. 0 W to 1 320 W 5 W be selected. ff hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Other functions Item Elapsed time display Range Integrated current display Integrated power display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Displays ti Dis Dis Automatically turns of 1 ds are HIGH: 3.5 V to	PLZ405W he time from load on to 1s to 999h 59min 59s. splays integrated currer splays integrated powe off the load after the spe 1s to 3599999s, or off.	load off. nt. r.	
Overpower protection (OPP) Settin Reso Protection (OPP) Undervoltage protection (UVP) Settin Reso Protection (WPP) Watchdog protection(WDP) Protection Protection (WDP) EXT CONT connect Load on/off cc Range cont Alarm it Alarm clear Trigger External voltage (CC, CR, C External voltage (CV m	Ing range 0 olution section operation ing range olution section operation ing range section operation section operation section operation sector m sector input input input input input control input e control input	W to 220 W 0 W to 440 W 1 W 2 W Either load off or limitation can 1.0 V to 150.0 V, or c 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltag When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	0 W to 1 320 W 5 W be selected. ff f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Item Range Range Integrated current display Integrated coursent display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Displays ti Dis Dis Automatically turns of 1 ds are HIGH: 3.5 V to	he time from load on to 1s to 999h 59min 59s. splays integrated currer splays integrated powe off the load after the spe 1s to 3599999s, or off.	load off. nt. r.	
Overpower protection (OPP) Protec Undervoltage protection (UVP) Protec Watchdog protection(WDP) Protec EXT CONT connect Load on/off cc Range cont Alarm i Alarm clear Trigger External voltage (CC, CR, C	Ing range 0 olution section operation ing range olution section operation ing range section operation section operation section operation sector m sector input input input input input control input e control input	W to 220 W 0 W to 440 W 1 W 2 W Either load off or limitation can 1.0 V to 150.0 V, or c 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltag When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	0 W to 1 320 W 5 W be selected. ff f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Elapsed time display Range Integrated current display Integrated power display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Displays ti Dis Dis Automatically turns of 1 ds are HIGH: 3.5 V to	he time from load on to 1s to 999h 59min 59s. splays integrated currer splays integrated powe off the load after the spe 1s to 3599999s, or off.	load off. nt. r.	
Protection (OPP) Reso Protection (UVP) Protection (UVP) Protection (UVP) Protection (UVP) Protection (WP) Protection (WDP) Protection EXT CONT connect Load on/off cc Range cont Alarm it Alarm clear Trigger External voltage (CC, CR, C	olution ection operation ing range olution ection operation ing range ection operation ection operation ector m control input input input ring input ring input e control input	1 W 2 W Either load off or limitation can 1.0 V to 150.0 V, or c 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltagy When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	5 W be selected. off f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Elapsed time display Range Integrated current display Integrated power display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Displays ti Dis Dis Automatically turns of 1 ds are HIGH: 3.5 V to	he time from load on to 1s to 999h 59min 59s. splays integrated currer splays integrated powe off the load after the spe 1s to 3599999s, or off.	load off. nt. r.	
OPP) Protection Undervoltage protection (UVP) Reso (UVP) Watchdog protection(WDP) Protection EXT CONT connect Item Load on/off cor Range cont Alarm clear Trigger External voltage (CC, CR, C Statemal voltage (CV m)	ection operation ing range olution ing range ection operation ing range ection operation schor m control input input input ring input e control input e control input	Either load off or limitation can 1.0 V to 150.0 V, or c 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is c Paused sequence operation resumes wh Controls the load	be selected. off f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Range Integrated current display Integrated power display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Dis Dis Automatically turns o ds are HIGH: 3.5 V to	1s to 999h 59min 59s. splays integrated currer splays integrated powe off the load after the spe 1s to 3599999s, or off.	ıt. r.	
Undervoltage protection (UVP) Protec Watchdog protection(WDP) Frotec EXT CONT connect Load on/off cc Range cont Alarm it Alarm clean Trigger External voltage (CC, CR, C	ing range olution ing range ction operation ing range ctor sontrol input input input ring input ring input c control input	1.0 V to 150.0 V, or o 0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Integrated current display Integrated power display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Dis Dis Automatically turns o 1 ds are HIGH: 3.5 V to	splays integrated currer splays integrated powe off the load after the spe 1s to 3599999s, or off.	r.	
Vider Voitege (UVP) Reso (UVP) Protection (UVP) Protection (UV	olution ection operation ing range ection operation ector m control input input input ring input r input e control input	0.1 V Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	f hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Integrated power display Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Dis Automatically turns o 1 ds are HIGH: 3.5 V to	splays integrated powe off the load after the spe 1s to 3599999s, or off.	r.	
(UVP) Protection Watchdog protection(WDP) Protection EXT CONT connect Load on/off cc Range cont Alarm in Alarm clear Trigger External voltage (CC, CR, C	ection operation ing range ection operation etor m control input input input ring input r input e control input	Load off 60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Auto load off timer Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	Automatically turns of the second sec	off the load after the special stores of the		
External voltage (CV m	ing range ection operation stor m sontrol input input input ring input r input e control input	60s to 3600s, or of Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	Setting range PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	ds are HIGH: 3.5 V to	1s to 3599999s, or off.		
protection(WDP) Protec EXT CONT connect Item Load on/off cc Range cont Alarm i Alarm clear Trigger External voltage (CC, CR, C	ction operation ctor m control input input input ring input r input e control input	Load off PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	hable. Pulled up to 5 V by L, M, and H using a 2 bit si e between 0 V and 1.5 V.	PLZ405W γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ	ds are HIGH: 3.5 V to	· · ·		
EXT CONT connect Item Load on/off cc Range cont Alarm i Alarm clear Trigger External voltage (CC, CR, C	stor m sontrol input input input ring input r input e control input	PLZ205W Logic level switcl The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	L, M, and H using a 2 bit si e between 0 V and 1.5 V.	γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ		PLZ1205W		
Item Load on/off co Range cont Alarm in Alarm clear Trigger External voltage (CC, CR, C	m control input input input ring input r input e control input	Logic level switch The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	L, M, and H using a 2 bit si e between 0 V and 1.5 V.	γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ		PLZ1205W		
Load on/off cc Range cont Alarm in Alarm clean Trigger External voltage (CC, CR, C	control input htrol input input ring input r input e control input	Logic level switch The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	L, M, and H using a 2 bit si e between 0 V and 1.5 V.	γ a 10 kΩ resistor. The threshold ignal. Pulled up to 5 V by a 10 kΩ		1 22120311		
Range cont Alarm in Alarm clear Trigger External voltage (CC, CR, C	ntrol input input ring input r input e control input	The range can be switched between An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	L, M, and H using a 2 bit si e between 0 V and 1.5 V.	ignal. Pulled up to 5 V by a 10 k Ω		0.5 V I OW: 0 V to 1.5 V	/	
Alarm in Alarm clear Trigger External voltage (CC, CR, C	input iring input r input e control input	An alarm is activated with a voltage When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load	e between 0 V and 1.5 V.					
Alarm clear Trigger External voltage (CC, CR, C (CC, CR, C (CV m (CV m	r input r input e control input	When an alarm is activated, the alarm is of Paused sequence operation resumes wh Controls the load						
Trigger External voltage (CC, CR, C External voltage (CV m	e control input	Paused sequence operation resumes wh Controls the load	cleared with a voltage betweer					
External voltage (CC, CR, C External voltage (CV m	e control input	Controls the load	-					
(CC, CR, C External voltage (CV m		Controls the load	•					
(CC, CR, C External voltage (CV m			settings of CC, CR, CP n	node through external voltage of 0% to 100% of the rated cur	input. The input imp	bedance is approx. 10 k	Ω. ο 10 V	
External voltage (CV m				of 0% to 100% of the rated cur 0% to 100% of the conductance				
External voltage (CV mo		CP: The setting can be	e controlled in the range	e of 0% to 100% of the rated po	wer through externa	al voltage input of 0 V tr	5 10 V.	
External voltage (CV mo	Setting accuracy	<u>_</u>		range) (TYP value of H range i				
(CV m				/ mode can be controlled throug	,	nput.		
· _		The rated voltage		range of 0% to 100% with 0 V to			Ω.	
ļ	Setting accuracy			± (1% of range) (TYP value))	··		
External voltage			Controls the load setting of					
(superimposing				$_{\rm 0}$ of CC mode by adding current through external voltage input. 0% of the rated current for -10 V to 10 V. The input impedance is approx. 10 kΩ.			Σ.	
	Setting accuracy		±(: (1% of range) (TYP value of H range)				
Load-on stat				is on. Open-collector output from a photocoupler.*1				
Range statu		Outputs		M, and H using 2 bits. Open-collector output from a photocoupler.*1				
Trange state				detection, overheat detection, alarm input detection, front-panel load terminal overcurrent				
ALARM 1	1 output			aly detection is activated. Open			nai overcurrent	
ALARM 2				en OCP, OPP, UVP, or WDP is o				
DIGITAL 0 / DIG		Logic signal outp		uence. Output impedance: app		voltage: approx 3.3.V		
DIGITAL OF DIG			• •			• • • •		
DIGITAL 2	2 output	Input: This signal is the trigger in		ut: Logic signal output during a s				
0		input. This signal is the trigger in					577.07100.07.	
Current moni				V for 0% to 100% of the rated c		<u>).</u>		
Oh a st si su s	Accuracy			(1% of range) (TYP value of H ra				
Short signa	1			when the short function is turne	ad on (30 Vdc / 1 A).			
		ed to the photocoupler is 30 V. The maxim	ium current is 4 mA.					
Front-panel BNC ter								
Trigger o		Transmits 10 µs pulses when trigg					itching operation.	
Current moni	nitor output			V for 0% to 100% of the rated cu				
	Accuracy		± ((1% of range) (TYP value of H ra	ange)			
Isolation v	voltage			±30 V				
Communication fun	nction							
LAN	N	IEI	EE 802,3 100Base-TX / 1	0Base-T Ethernet Auto-MDIX s	support IPv4, RJ-45	connector		
RS23	32C	D-SUB 9-pin connector Baud rate	e: 9600, 19200, 38400, 11	15200 bps Data length: 8 bits, 5	Stop bits: 1 bit, Parity	y bit: None, Flow control	: None, CTS-RTS	
USE	B	Complies with the USB 2.0 s	pecification. Data rate: 48	80 Mbps (High speed) Complies	s with the USBT MC-	USB488 device class s	pecifications.	
General specificatio	ons							
Input voltage range / Inp	nput frequency range		100 Vac to 240 Vac (90 V	Vac to 250 Vac) single phase, o	continuous / 47 Hz t	o 63 Hz		
Power cons		50 VAmax		50 VAmax		85 VAmax		
Inrush current (•		I	45 Apeak				
	ating temperature range			0 °C to 40 °C (32 °F to 104°F	;)			
L Unerat.	• • •			· · · · · · · · · · · · · · · · · · ·				
			2	20%rh to 85%rh (no condensation)				
Environ- Opera	ating humidity range			-20 °C to 70 °C (-4 °F to 158°F)				
Environ- mental Storage	ge temperature range			90%rh or less (no condensation)				
Environ- mental Storage conditions Storage	ge temperature range age humidity range		Indoor use o		n Indoor use, altitude of up to 2000 m, overvoltage category II.			
Environ- mental conditions Storage Insta	ge temperature range age humidity range tallation location		Indoor use, a		tage category II.			
Environ- mental conditions Insta Insulation	ge temperature range age humidity range tallation location n primary and input terminals			ltitude of up to 2000 m, overvolt				
Environ- mental conditions Insulation resistance	ge temperature range age humidity range tallation location n primary and input terminals een primary and chassis							
Environ- mental conditions Insulation resistance Environ- Storage Insta Between Between	ge temperature range age humidity range tallation location n primary and input terminals een primary and chassis n input terminals and chassis		500	Ititude of up to 2000 m, overvolt 0 Vdc, 30 M Ω or more (70%rh o	or less)			
Environ- mental conditions Insulation resistance Withstand-	ge temperature range age humidity range tallation location n primary and input terminals een primary and chassis n input terminals and chassis n primary and input terminals		500 No a	iltitude of up to 2000 m, overvol 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1	minute.			
Environ- mental conditions Insulation resistance Withstand- ing volt- Between Between Between Between Between Between	ge temperature range age humidity range tallation location n primary and input teminals een primary and chassis n input terminals and chassis n primary and input teminals een primary and chassis		500 No a No a	lititude of up to 2000 m, overvol 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 abnormalities at 1500 Vac for 1	minute.			
Environ- mental conditions Insulation resistance Withstand- ing volt- age	ge temperature range age humidity range tallation location n primary and input teminals een primary and chassis n primary and input teminals een primary and chassis en primary and chassis n input teminals and chassis		500 No a No a No a	lititude of up to 2000 m, overvol 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 abnormalities at 1500 Vac for 1 abnormalities at 750 Vac for 1 n	minute. minute.			
Environ- mental conditions Insulation resistance Withstand- ing volt- age Dimensions Unit	ge temperature range age humidity range (allation location n primary and input terminals een primary and chassis n pimary and input terminals en primary and chassis n input terminals and chassis in input terminals and chassis it: mm (inches)		500 No a No a No a 5)W×124 (4.88)H×400 (15	lititude of up to 2000 m, overvoli 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 n abnormalities at 1500 Vac for 1 n abnormalities at 750 Vac for 1 n 5.75)Dmm(inches)	minute. minute.	6.91)W×128 (5.04)H×400	, , ,	
Environ- mental conditions Insulation resistance Withstand- ing volt- age	ge temperature range age humidity range (allation location n primary and input terminals een primary and chassis n pimary and input terminals en primary and chassis n input terminals and chassis in input terminals and chassis it: mm (inches)	214.5 (8.45 Approx. 7 kg (15.4 lb	500 No a No a No a 5)W×124 (4.88)H×400 (15	lititude of up to 2000 m, overvol 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 abnormalities at 1500 Vac for 1 abnormalities at 750 Vac for 1 n	minute. minute.	6.91)W×128 (5.04)H×400 Approx. 14 kg (30	, , ,	
Environ- mental conditions Insulation resistance Withstand- ing volt- age Dimensions Unit	ge temperature range age humidity range tallation location n primary and input terminals sen primary and chassis n input terminals and chassis n primary and input terminals ene primary and chassis n input terminals and chassis hit: mm (inches) ght	Approx. 7 kg (15.4 lb Power cord, Rear-panel load input	500 No a No a No a 5)W×124 (4.88)H×400 (15 5)W×124 (4.88)H×400 (15 5) .) (terminal cover, Load inpu	lititude of up to 2000 m, overvol 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 n abnormalities at 1500 Vac for 1 n 5.75)Dmm(inches) Approx. 7.5 kg (16.5 lb.) it terminal screw set (2 sets). Sci	minute. minute. minute. 429.5 (1 rews for the rear-pan	Approx. 14 kg (30 lel load input terminal co	.9 lb.) ver (2 pcs.), Front-	
Environ- mental conditions Insulation resistance Withstand- ing volt- age Dimensions Unit	ge temperature range age humidity range tallation location n primary and input terminals sen primary and chassis n input terminals and chassis n primary and input terminals ene primary and chassis n input terminals and chassis hit: mm (inches) ght	Approx. 7 kg (15.4 lb	500 No a No a No a 5)W×124 (4.88)H×400 (15 5)W×124 (4.88)H×400 (15 5) .) (terminal cover, Load inpu	lititude of up to 2000 m, overvol 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 n abnormalities at 1500 Vac for 1 n 5.75)Dmm(inches) Approx. 7.5 kg (16.5 lb.) it terminal screw set (2 sets). Sci	minute. minute. minute. 429.5 (1 rews for the rear-pan	Approx. 14 kg (30 lel load input terminal co	.9 lb.) ver (2 pcs.), Front-	
Environ- mental conditions Insulation resistance Withstand- ing volt- age Dimensions Unit Weig	ge temperature range age humidity range (allation location n primary and input terminals een primary and chassis n primary and input terminals en primary and input terminals en primary and chassis n input terminals and chassis in input terminals and chassis it: mm (inches) ght sories	Approx. 7 kg (15.4 lb Power cord, Rear-panel load input panel load input terminal cover, Fro	500 No a No a No a 50W×124 (4.88)H×400 (19 50) terminal cover, Load inpu int-panel load input knob s Complies with the re	lititude of up to 2000 m, overvoli 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 i abnormalities at 1500 Vac for 1 i abnormalities at 750 Vac for 1 n 5.75)Dmm(inches) Approx. 7.5 kg (16.5 lb.) It terminal screw set (2 sets), Scr est, External control connector k equirements of the following di	minute. minute. 429.5 (1 rews for the rear-pan kit, Setup Guide, CD- irective and standar	Approx. 14 kg (30 nel load input terminal co ROM, Quick Reference, ds.	.9 lb.) ver (2 pcs.), Front- Safety Informatio	
Environ- mental conditions Insulation resistance Withstand- age Dimensions Uning volt- age Etween Betw	ge temperature range age humidity range tallation location n primary and input terminals ene primary and chassis n primary and chassis n primary and input terminals and chassis ene primary and chassis an primary and chassis in input terminals and chassis hit: mm (inches) ght sories c compatibility	Approx. 7 kg (15.4 lb Power cord, Rear-panel load input panel load input terminal cover, Fro EMC Directive 20	500 No a No a No a 5)W×124 (4.88)H×400 (15 5)W×124 (4.88)H×400 (15 c) t terminal cover, Load input tropale load input knob s Complies with the re 014/30/EU, EN 61326-1 (1	lititude of up to 2000 m, overvoli 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 m abnormalities at 1500 Vac for 1 m 5.75)Dmm(inches) Approx. 7.5 kg (16.5 lb.) it terminal screw set (2 sets), Sci set, External control connector k equirements of the following di Class A*3), EN 55011 (Class A	minute. minute. 429.5 (1 rews for the rear-pan cit, Setup Guide, CD- irective and standard *3, Group 1*4), EN 6	Approx. 14 kg (30 nel load input terminal co ROM, Quick Reference, ds. 1000-3-2, EN 61000-3	.9 lb.) ver (2 pcs.), Front- Safety Information	
Environ- mental conditions Insulation resistance Withstand- ing volt- age Dimensions Unit Weig	ge temperature range age humidity range tallation location n primary and input terminals ene primary and chassis n primary and chassis n primary and input terminals and chassis ene primary and chassis an primary and chassis in input terminals and chassis hit: mm (inches) ght sories c compatibility	Approx. 7 kg (15.4 lb Power cord, Rear-panel load input panel load input terminal cover, Fro EMC Directive 20 Applicable under the follow	500 No a No a No a 5)W×124 (4.88)H×400 (15 5) (1 terminal cover, Load input trompia load input knob s Complies with the re 014/30/EU, EN 61326-1 (i ing conditions.The maxim	lititude of up to 2000 m, overvoli 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 m abnormalities at 750 Vac for 1 m 5.75)Dmm(inches) Approx. 7.5 kg (16.5 lb.) it terminal screw set (2 sets), Sci set, External control connector k equirements of the following di Class A*3), EN 55011 (Class A mum length of all cabling and w	minute. minute. 429.5 (1 429.5 (1 rews for the rear-pan cit, Setup Guide, CD- irective and standard *3, Group 1*4), EN 6 wiring connected to t	Approx. 14 kg (30 lel load input terminal co ROM, Quick Reference, ds. 1000-3-2, EN 61000-3 the PLZ-5W must be le	9 lb.) ver (2 pcs.), Front- Safety Information -3 ss than 3 m.	
Electromagnetic	ge temperature range age humidity range tallation location primary and input terminals ene primary and chassis n primary and input terminals ene primary and chassis n input terminals and chassis n input terminals and chassis in input terminals and chassis it: mm (inches) ght sories c compatibility) *1 *2	Approx. 7 kg (15.4 lb Power cord, Rear-panel load input panel load input terminal cover, Fro EMC Directive 20	500 No a No a No a 5)W×124 (4.88)H×400 (15 5) (1 terminal cover, Load input trompia load input knob s Complies with the re 014/30/EU, EN 61326-1 (i ing conditions.The maxim	lititude of up to 2000 m, overvoli 0 Vdc, 30 MΩ or more (70%rh o abnormalities at 1500 Vac for 1 m abnormalities at 750 Vac for 1 m 5.75)Dmm(inches) Approx. 7.5 kg (16.5 lb.) it terminal screw set (2 sets), Sci set, External control connector k equirements of the following di Class A*3), EN 55011 (Class A mum length of all cabling and w	minute. minute. 429.5 (1 429.5 (1 rews for the rear-pan cit, Setup Guide, CD- irective and standard *3, Group 1*4), EN 6 wiring connected to t	Approx. 14 kg (30 lel load input terminal co ROM, Quick Reference, ds. 1000-3-2, EN 61000-3 the PLZ-5W must be le	9 lb.) ver (2 pcs.), Front- Safety Information -3 ss than 3 m.	

*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 radiation, 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's protective conductor terminal. The safety of this product is only guaranteed when the product is properly grounded. *6 Pollution is addition of focile, fluid 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

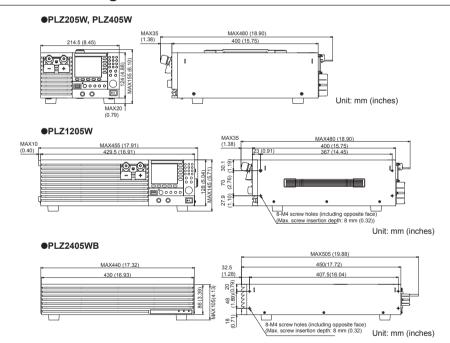
Ratings		
Ite	m	PLZ2405WB
Operating voltage		1 Vdc to 150 Vdc
Current		480 A
Power		2400 W
Current range		
H ra	nge	0 A to 480 A
M range		0 A to 48 A
L range		0 A to 4.8 A
Setting accuracy	ý	
	H range	± (0.4% of set + 0.8% of range)
CC mode	M range	± (0.4% of set + 0.8% of range)
	L range	± (0.4% of 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)
CP mode	M range	± (2% of range + 0.4% current range × Vin)
	L range	± (2% of range + 2.5% current range × Vin)
Measurement a	ccuracy	
Voltmeter	accuracy	± (0.1% of reading + 0.1% of range)
A	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 I' (OTD)	

	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
Powe	er consumption	95 VAmax
Inrush c	urrent (peak value)	45 Apeak
Operating	temperature range	0 °C to 40 °C (32 °F to 104 °F)
Operating humidity range		20%rh to 85%rh (no condensation)
Storage temperature range		-20 °C to 70 °C (-4 °F to 158 °F)
Storage humidity range		90%rh or less (no condensation)
Installation location		Indoor use, altitude of up to 2000 m, overvoltage category II
Isolation 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)
	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
voltage	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





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