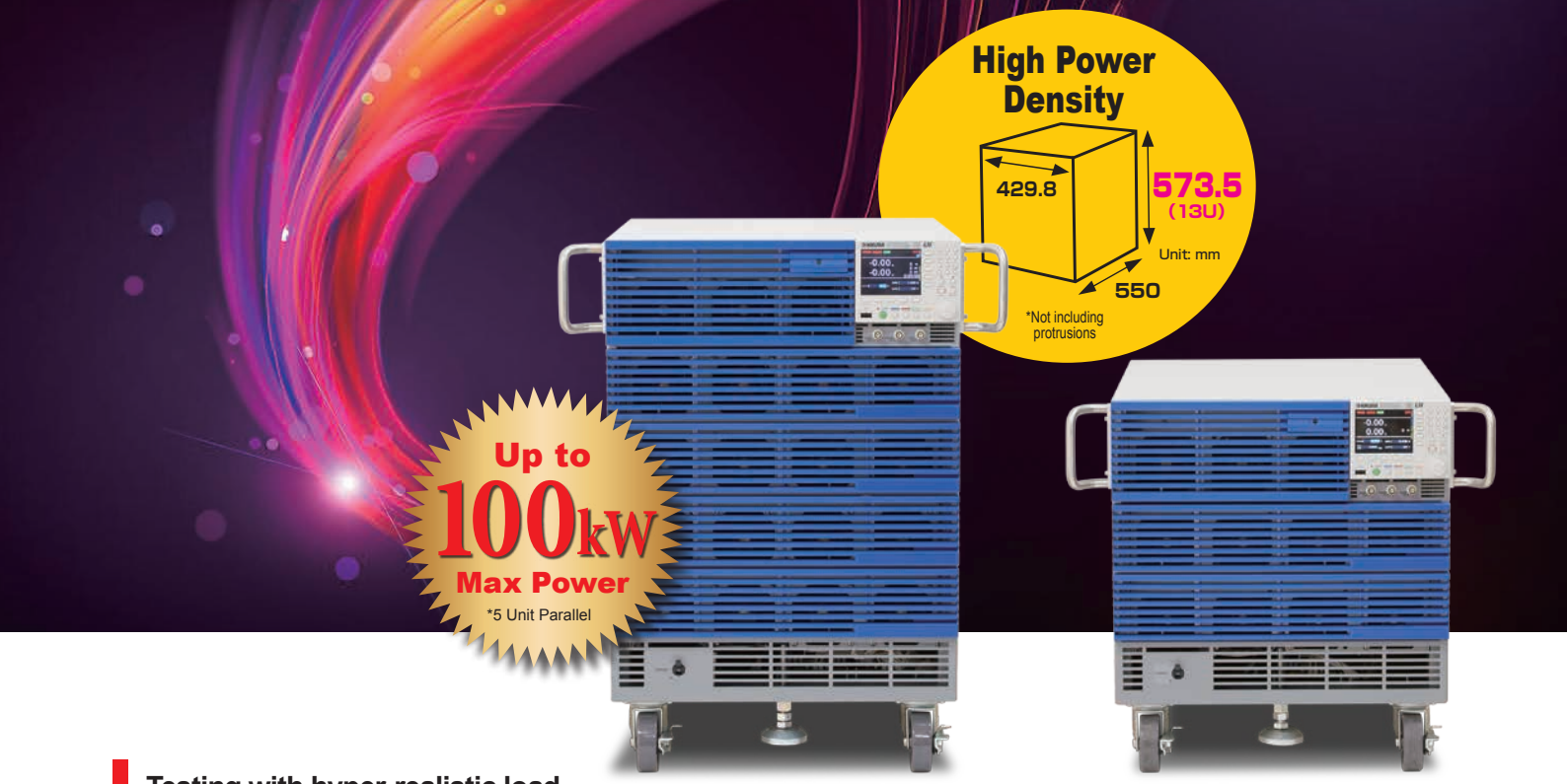
High Voltage High Capacity DC Electronic Load
PLZ-5WH Series (Tentative name)

KIKUSUI

Maximum Operating Voltage 800V

Ideal for high capacity power supply and rechargeable battery evaluation!



PLZ20005WH

20kW

PLZ12005WH

12kW

Testing with hyper-realistic load simulation made possible!

The PLZ-5WH high power DC electronic load series is where durable, reliable ingenuity meets multifunctional and high power design. Up to 20kW can be achieved with a single unit. Thanks to the highly power dense design of the PLZ-5WH, this series can sink up to 20kW of power in a single unit. Load simulation can be achieved faster than ever before thanks to the reliable, high speed design of the PLZ-5WH current control circuits. Accurate current measures can be made with extremely high setting resolution. A color LCD display allows for highly visible, user-friendly front panel operation. RS232C, USB, and LAN digital interfaces are included as standard for simple integration into any system.

High Voltage High Capacity DC Electronic Load

PLZ-5WH Series NEW

- Operating voltage: 10V – 800V (Min. 1.5V)
- 20kW in a single unit (PLZ20005WH)
- 100kW/2000A with parallel operation (Max. 5 units)
- Synchronization: Load ON/OFF control and sequences can be synchronized among multiple units
- Arbitrary IV characteristic (ARB) mode
- User-friendly color LCD display
- Data-logging: voltage/current/power measurements (Measurement display, programmable internal memory)
- LAN (LXI)/USB/RS232C standard digital interface *GPIB optional

Lineup

Model	Max Current	Max Voltage	Power
PLZ12005WH	240A	10V to 800V	12kW
PLZ20005WH	400A		20kW

■ Specification

■ Rating

Item		PLZ12005WH	PLZ20005WH
Operating voltage (DC)		10 V ~ 800 V	
Current		240 A	400 A
Power		12000 W	20000 W
Input Resistance with load OFF		± 800 V	
Min. Operating Voltage	At Rated Current	10 V	
	Current output	under1.5 V	

*1. In the case of parallel operation, about 3.4 MΩ / unit
*2. At the load input terminal

■ Constant Current (CC) Mode

Item		PLZ12005WH	PLZ20005WH
Operating Range		0 A ~ 240 A	0 A ~ 400 A
Setting Range		0 A ~ 242.400 A	0 A ~ 404.00 A
Resolution		5 mA	10 mA
Setting Accuracy		± (0.2 % of set + 0.1 % of rating)	
	Parallel Operation	± (0.4 % of set + 0.2 % of rating)	

■ Constant resistance (CR) Mode

Item			PLZ12005WH	PLZ20005WH
Operating Range*1		H range	6000 mS ~ 0 S (0.167 Ω ~ Open)	10 S ~ 0 S (0.1 Ω ~ Open)
		L range	60 mS ~ 0 S (16.7 Ω ~ Open)	100 mS ~ 0 S (10 Ω ~ Open)
Setting Range		H range	6060.0 mS ~ 0 S (0.165 Ω ~ Open)	10.1000 S ~ 0 S (0.099 Ω ~ Open)
		L range	60.600 mS ~ 0 S (16.5 Ω ~ Open)	101.000 mS ~ 0 S (9.9 Ω ~ Open)
Resolution		H range	0.2 mS	
		L range	0.002 mS	
Setting Accuracy*2		H range	± (0.5 % of set + 0.5 % of rating)	
		L range	± (0.5 % of set + 0.2 % of rating)	
	Parallel Operation	H range	± (1.0 % of set + 1.0 % of range)	
		L range	± (1.0 % of set + 0.4 % of range)	
Response Speed			NORM ／ FAST	

*1. Conductance[S]= Input current[A]/ Input voltage[V] = 1/ Resistance value[Ω]
*2. Converted value with input current. At the sensing end during remote sensing

■ Constant voltage (CV) Mode

Item		PLZ12005WH	PLZ20005WH
Operating Range		10 V ~ 800 V	
Setting Range		0 V ~ 808.00 V	
Resolution		20 mV	
Setting Accuracy*1		± (0.05 % of set + 0.05 % of rating)	
	Parallel Operation	± (0.1 % of set + 0.1 % of rating)	
Response Speed		NORM ／ FAST	

*1. Input Voltage in the operating range, at the remote sensing terminals

■ Constant Power (CP) Mode

Item	PLZ12005WH	PLZ20005WH
Operating range	0 W ~ 12000 W	0 W ~ 20000 W
Setting range	0 W ~ 12120 W	0 W ~ 20200 W
resolution	0.5 W	0.5 W
Setting Accuracy *1	±(0.5 % of range + 0.2 A × Vin)	±(0.5 % of range + 0.4 A × Vin)
Parallel operation	±(1 % of range + 0.1 % current rating × Vin)	

*1. Vin : Load Terminal Voltage or SENSING Terminal Voltage

■ Arbitrary IV Characteristics (ARB) Mode

Item	PLZ12005WH	PLZ20005WH
Operating range	3-100points of current within the voltage range (Space between points are automatically linearly interpolated)	
Response speed	500 us、1 ms、2 ms、5 ms、10 ms、20 ms、50 ms、100 ms、or OFF	

■ General Specifications

Item		PLZ12005WH	PLZ20005WH
Input Voltage Range		100 Vac ~ 240 Vac (90 Vac ~ 250 Vac) Single Phase	
Input Frequency Range		47 Hz ~ 63 Hz	
Power Consumption		740 VAmax	
Inrush Current (Peak value)		100 A or less (Cold Start)	
Test Condition	Operating Temp. Range	0 ℃ ~ 40 ℃	
	Operating Humidity Range	20 %rh ~ 85 %rh (No condensation)	
	Storage Temp. Range	−20 ℃ ~ 70 ℃	
	Storage Humidity Range	90 %rh or less (No condensation)	
	Storage Location	Indoors、2000 m 、CAT Ⅱ	
Insulation resistance	Primary - Input Terminal	1000 Vdc、Over 30 MΩ (70 %rh or less)	
	Primary - Chassis		
	Input Terminal - Chassis	1000 Vdc、Over 3 MΩ (70 %rh or less)	
Withstand voltage	Primary - Chassis	1500 Vac、No changes in 5s	
	Primary - Input Terminals		
	Input Terminal - Chassis	1200 Vac、No changes in 5s	
Dimensions (Max)		429.8(545)W × 396.2(495)H × 550(625)Dmm	429.8(545)W × 573.5(670)H × 550(625)Dmm
Weight		Approx. 64 kg	Approx. 93 kg

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