

Unless specified otherwise, the specifications are for the following settings and conditions.

- The product is warmed up for at least 30 minutes.
- Rear-panel DC INPUT terminals are used.

The used terminology is as follows:

- TYP: These are typical values that are representative of situations where the product operates in an environment with an ambient temperature of 23 °C (73.4 °F). These values do not guarantee the performance of this product.
- setting: Indicates a setting.
- reading: Indicates a readout value. • rating: Indicates a rated value.
- Open: Indicates equivalence to the state in which the DC INPUT terminals are opened.

■ Rating

Item	PLZ1005WH2	PLZ2005WH2	PLZ4005WH2	PLZ12005WH2	PLZ20005WH2
Operating voltage (DC)	10 V to 1000 V				
Power	1000 W	2000 W	4000 W	12000 W	20000 W
Current	20 A	40 A	80 A	240 A	400 A
DC INPUT terminal's isolation voltage	Positive pin: ±1000 V, Negative pin: ±900 V				
Minimum operating voltage	At the rated current	10 V			
	When the current begins to flow	1.5 V or less			

■ Constant current (CC) mode

Item	PLZ1005WH2	PLZ2005WH2	PLZ4005WH2	PLZ12005WH2	PLZ20005WH2
Operating range	0 A to 20 A	0 A to 40 A	0 A to 80 A	0 A to 240 A	0 A to 400 A
Setting range	0.0000 A to 20.2000 A	0.000 A to 40.400 A	0.000 A to 80.800 A	0.00 A to 242.40 A	0.00 A to 404.00 A
Resolution	0.0005 A	0.001 A	0.002 A	0.005 A	0.01 A
Setting accuracy	±(0.2 % of setting + 0.1 % of rating)				
	Parallel operation	±(0.4 % of setting + 0.2 % of rating)			

■ Constant resistance (CR) mode

Item	PLZ1005WH2	PLZ2005WH2	PLZ4005WH2	PLZ12005WH2	PLZ20005WH2	
Operating range *1	H range	500 mS to 0 S	1 S to 0 S	2 S to 0 S	6 S to 0 S	10 S to 0 S
	L range	5 mS to 0 S	10 mS to 0 S	20 mS to 0 S	60 mS to 0 S	100 mS to 0 S
Setting range	H range	505.00 mS to 0.00 S	1.01000 S to 0.00000 S	2.02000 S to 0.00000 S	6.0600 S to 0.00000 S	10.1000 S to 0.0000 S
	L range	5.0500 mS to 0.0000 S	10.1000 mS to 0.0000 S	20.2000 mS to 0.000 S	60.600 mS to 0.000 S	101.000 mS to 0.000 S
Resolution	H range	0.01 mS	0.00002 S	0.00005 S	0.0002 S	0.0002 S
	L range	0.0001 mS	0.0002 mS	0.0005 mS	0.002 mS	0.002 mS
Setting accuracy *2	H range	±(0.5 % of setting + 0.5 % of rating *3)				
	L range	±(0.5 % of setting + 0.2 % of rating *3)				
	Parallel operation	H range	±(1.0 % of setting + 1.0 % of rating *3)			
		L range	±(1.0 % of setting + 0.4 % of rating *3)			
Response speed	NORM/FAST					

*1. Conductance [S] = input current [A]/input voltage [V] = 1/resistance [Ω]

*2. Converted value at the input current. At the sensing point during remote sensing.

*3. Rated current

■ Constant voltage (CV) mode

Item	PLZ1005WH2	PLZ2005WH2	PLZ4005WH2	PLZ12005WH2	PLZ20005WH2
Operating range	10 V to 1000 V				
Setting range	0.00 V to 1010.00 V				
Resolution	0.02 V				
Setting accuracy *1	±(0.05 % of setting + 0.05 % of rating)				
	Parallel operation	±(0.1 % of setting + 0.1 % of rating)			
Response speed	NORM/FAST				

*1. With the input voltage within the operating range, and at the sensing point during remote sensing.

■ Constant power (CP) mode

Item	PLZ1005WH2	PLZ2005WH2	PLZ4005WH2
Operating range	0 W to 1000 W	0 W to 2000 W	0 W to 4000 W
Setting range	0.00 W to 1010.00 W	0.00 W to 2020.00 W	0 W to 4040.00 W
Resolution	0.02 W	0.05 W	0.1 W
Setting accuracy	±(0.5 % of rating *1 + 0.02 A × Vin *2)	±(0.5 % of rating *1 + 0.04 A × Vin *2)	±(0.5 % of rating *1 + 0.08 A × Vin *2)
	Parallel operation	±(1 % of power rating + 0.1 % current rating × Vin *2)	

Item	PLZ12005WH2	PLZ20005WH2
Operating range	0 W to 12000 W	0 W to 20000 W
Setting range	0.0000 kW to 12.1200 kW	0.0000 kW to 20.2000 kW
Resolution	0.0005 kW	
Setting accuracy	±(0.5 % of rating *1 + 0.2 A × Vin *2)	±(0.5 % of rating *1 + 0.4 A × Vin *2)
	Parallel operation	±(1 % of power rating + 0.1 % current rating × Vin *2)

*1. Rated power

*2. DC INPUT terminal voltage or SENSING terminal voltage.

■ General specifications

Item	PLZ1005WH2	PLZ2005WH2	PLZ4005WH2	PLZ12005WH2	PLZ20005WH2
Input voltage range	100 Vac to 240 Vac (90 Vac to 250 Vac) single phase				
Input frequency range	47 Hz to 63 Hz				
Power consumption	70 VAmax	90 VAmax	150 VAmax	360 VAmax	590 VAmax
Inrush current (peak value)	100 Vac	30 Amax	30 Amax	30 Amax	40 Amax
	230 Vac	80 Amax	80 Amax	80 Amax	160 Amax
Leakage current *1	0.5 mA or less	0.6 mA or less	0.8 mA or less	1.6 mA or less	2.4 mA or less
Environmental conditions	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	-25 °C to 60 °C (-13 °F to 140 °F)			
	Storage humidity range	90 %rh or less (no condensation)			
	Installation location	Indoor use, altitude of up to 2000 m, overvoltage category II			
Insulation resistance	Between primary and chassis, input, monitor terminals	1000 Vdc, 30 MΩ or more (70 %rh or less)			
	Between input terminals and chassis, monitor terminal	1000 Vdc, 3 MΩ or more (70 %rh or less)			
Withstanding voltage	Between primary and chassis, input, monitor terminals	No abnormalities at 1500 Vac for 2 s			
	Between input terminals and chassis, monitor terminal	No abnormalities at 1500 Vac for 2 s			
External dimensions	Refer to external dimensions				
Weight	Approx. 13 kg (28.7 lbs)	Approx. 16 kg (35.3 lbs)	Approx. 20 kg (44.1 lbs)	Approx. 64 kg (141.1 lbs)	Approx. 93 kg (205 lbs)
Accessories	<p>[Common to all models]</p> <p>Power cord (1 pc., length: 2.5 m), Safety terminal adapter TL41 (red 1 set, black 1set), External control connector kit (1 set), Safety Information (1 copy), Setup Guide (1 copy), Quick Reference (Japanese 1 sheet, English 1 sheet), CD-ROM (1 disc)</p> <p>[PLZ1005WH2, PLZ2005WH2, PLZ4005WH2]</p> <p>Rear-panel DC INPUT terminal cover (1 set), Screw set for rear-panel DC INPUT terminals (2 sets), Screws for the rear-panel DC INPUT terminal cover (2 pcs.), Front-panel DC INPUT terminal cover (1 pc.), Screws for the front-panel DC INPUT terminals (2 pcs.), Heavy object warning label (1 pc.) PLZ4005WH2 only</p> <p>[PLZ12005WH2, PLZ20005WH2]</p> <p>Rear-panel DC INPUT terminals cover (1 set), Screw set for rear-panel DC INPUT terminals (2 sets), Rear-panel DC INPUT terminals cover screws (2 pcs.), Heavy object warning label (1 pc.), Parallel operation signal cable kit [PC02-PLZ-5W]</p>				
Electromagnetic compatibility (EMC) *2 *3	<p>Complies with the requirements of the following directive and standards.</p> <p>EMC Directive 2014/30/EU</p> <p>EN 61326-1 (Class A *4), EN 55011 (Class A *4, Group 1 *5), EN 61000-3-2, EN 61000-3-3</p> <p>Applicable under the following conditions</p> <p>The maximum length of all cabling and wiring connected to the product must be less than 3 m.</p>				
Safety *2	<p>Complies with the requirements of the following directive and standards.</p> <p>EMC Directive 2014/35/EU *3</p> <p>EN 61010-1 (Class I *6, Pollution Degree 2 *7)</p>				

*1. Leakage current between the positive and negative terminals of the rear-panel DC INPUT. At 1000 Vdc.

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

*3. Limited to models that have a CE mark on their panels.

*4. This is a Class A instrument. This product is intended for use in an industrial environment. This product may cause interference if used in residential areas. Such use must be avoided unless the user takes special measures to reduce electromagnetic emissions to prevent interference to the reception of radio and television broadcasts.

*5. This is a Group 1 instrument. This product does not generate and/or use intentionally radio-frequency energy, in the form of electromagnetic radiation, inductive and/or capacitive coupling, for the treatment of material or inspection/analysis purpose.

*6. This is a Class I instrument. Be sure to ground this product's protective conductor terminal. The safety of this product is guaranteed only when the product is properly grounded.

*7. Pollution is addition of foreign matter (solid, liquid or gaseous) that may produce a reduction of dielectric strength or surface resistivity.

Pollution Degree 2 assumes that only non-conductive pollution will occur except for an occasional temporary conductivity caused by condensation.