OWH65 Series Single-Channel High-Power Programmable DC Power Supply Technical Specifications

The instrument must be continuously operated at the specified operating temperature for more than 30 minutes to meet the following specifications:

OWH6546 (A) Parameters

Model		OWH6546	OWH6546A
Rated output (0℃-40℃)	Output voltage range	0 -1200V	0-1200V
	OVP OVP	1V-1250V	1V-1250V
	Output current range	0-30A	0-20A
	OCP	1A-35A	1A-25A
	Max. power	18kW	12kW
Input voltage	Volt/freq.	3P4W, 380Vac±10%; 50/60Hz (L1/L2/L3-N)	
Load regulation ratio	CV	≤300mV	≤300mV
	CC	≤15mA	≤45mA
Power regulation rate	CV	≤300mV	≤300mV
	CC	≤15mA	≤45mA
Setting Resolution	Voltage	10mV	10mV
	Current	1mA	1mA
Readback Resolution	Voltage	10mV	10mV
	Current	1mA	1mA
Setting Accuracy	Voltage	≤0.05% + 500mV	≤0.05% + 500mV
	Current	≤0.1% + 30mA	≤0.1% + 90mA
Readback Accuracy	Voltage	≤0.05% + 500mV	≤0.05% + 500mV
	Current	≤0.1% + 30mA	≤0.1% + 90mA
Ripple Noise (*)	Voltage	≤2Vp-p	≤2Vp-p
	Current	≤150mArms	≤300mArms

Output temperature drift coefficient (0℃-40℃)	**Voltage**	100ppm/℃	100ppm/℃
	Current	200ppm/℃	200ppm/℃
Read back temperature drift coefficient	**Voltage**	100ppm/℃	100ppm/℃
	Current	200ppm/℃	200ppm/℃
Dynamic response (10%-90% rated load)		≤5.0ms	≤5.0ms
Operating temperature range		0-40℃	0-40℃
Display		3.9 "color LCD screen	3.9 "color LCD screen
Communication interface		USB, LAN, RS485	USB, LAN, RS485
Dimensions (mm)		428W * 274.4H * 511.5D	428W * 274.4H * 511.5D
Weight		Approx. 30kg	Approx. 30kg

*: Tested with a 10μF electrolytic capacitor in parallel with a 0.1μF ceramic capacitor at the output, under a noise bandwidth of 20MHz and a ripple bandwidth of 1MHz.

OWH6522 Parameters

Model		**OWH6522**
Rated output (0 ℃ -40 ℃)	**Voltage**	0 - 60V
	OVP	1 - 65V
	Current	0 - 120A
	OCP	1 - 121A
	Power	3000W
Power supply voltage[1]	**Volt./Freq.**	100V-240Vac; 50/60Hz
Load regulation ratio[2]	CV	≤30mV
	CC	≤60mA
Power regulation rate	CV	≤30mV
	CC	≤60mA
Setting Resolution	Voltage	10mV
	Current	1mA
Readback	Voltage	10mV

Resolution	Current	1mA
Setting Accuracy	Voltage	≤0.05% + 30mV
	Current	≤0.1% + 120mA
Readback Accuracy	Voltage	≤0.05% + 30mV
	Current	≤0.1% + 120mA
Ripple/noise[3]	Voltage	≤80mVp-p
	Current	≤120mArms
Output temperature coefficient (0℃-40℃)	Voltage	100ppm/℃
	Current	200ppm/℃
Read back temperature coefficient	Voltage	100ppm/℃
	Current	200ppm/℃
Transient recovery time (10%-90% rated load)		≤5.0ms
Operating temperature		0-40℃
Display		3.9 inch color LCD display
Interface		USB, LAN, RS485
Dimensions (mm)		428 (W) X 88.0 (H) X 446.2 (D)
Weight		Approx. 13kg

[1] When the input voltage is below 200Vac, the unit limits output power with a maximum input current of 18.5A. The applied load must not exceed the rated output load; otherwise output protection may activate.

[2] Detection is implemented at the voltage compensation terminal.

[3] Noise bandwidth: 20 MHz; ripple bandwidth: 1 MHz. Testing is performed with a 10 μF electrolytic capacitor in parallel with a 0.1 μF ceramic capacitor connected at the output terminal.

Adjustment interval: The recommended calibration interval is one year.

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V1.0.2