OWH80Q Series Four-Channel Programmable DC Power Supply

Technical Specification

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

OWH8080Q Parameter

Model		OWH8080Q-2000
Rated output (0℃ -40℃)	Voltage	0 - 80V
	OVP	1 - 85V
	Current	0 - 20A
	OCP	1 - 21A
	Power	4 x 500W
Input Voltage*	Voltage /Freq.	100V-240Vac; 45Hz-65Hz
Load regulation (%of output+offset)	CV	≤0.05%+20mV
	CC	≤0.1%+30mA
Input power regulation (%of output+offset)	CV	≤0.05%+20mV
	CC	≤0.1%+30mA
Setting resolution	Voltage	10mV
	Current	1mA
Readback resolution	Voltage	10mV
	Current	1mA
Setting accuracy	Voltage	≤0.05% ± 20mV
	Current	≤0.1% ± 30mA
Readback accuracy	Voltage	≤0.05% ± 20mV
	Current	≤0.1% ± 30mA
Ripple noise	Voltage	≤50mVp-p
	Current	≤30mArms
Output temp drift coefficient (0℃-40℃)	Voltage	100ppm/℃
	Current	200ppm/℃
Readback temp drift coefficient	Voltage	100ppm/℃
	Current	200ppm/℃
Transient response		≤5.0ms

(10%-90% rated load)	
Working temperature	0-40℃
Display	4.3 inch TFT LCD screen
Interface	USB, LAN, RS485, RS232
Dimension	215.0mm(W)X 133.0mm(H)X 446.2mm(D)
Weight	Approx. 6kg

*: When the input voltage is below 200V, the output power needs to be reduced to ensure that the input current does not exceed 10Arms.

OWH80Q-F Parameter

Model		**OWH8040Q-600F 4ch**	**OWH8020Q-1000F 4ch**
Rated output (0℃-40℃)	**Voltage**	0 - 80V	0 - 80V
	OVP	1 - 85V	1 - 85V
	Current	0 - 10A	0 - 5A
	OCP	1 - 11A	1 - 5.1A
	Power	4x 150W	4x 250W
Input Voltage	**Voltage/ Freq**	100V-240Vac; 45Hz-65Hz	100V-240Vac; 45Hz-65Hz
Load regulation (%of output+offset)	**CV**	≤0.03%+20mV	≤0.03%+20mV
	CC	≤0.05%+30mA	≤0.05%+30mA
Input power regulation (%of output+offset)	**CV**	≤0.03%+20mV	≤0.05%+20mV
	CC	≤0.05%+30mA	≤0.05%+30mA
Setting resolution	**Voltage**	10mV	10mV
	Current	1mA	1mA
Readback resolution	**Voltage**	10mV	10mV
	Current	1mA	1mA
Setting accuracy	**Voltage**	≤0.05% ± 40mV	≤0.05% ± 40mV
	Current	≤0.1% ± 0.1%FS	≤0.1% ± 0.1%FS
Readback accuracy	**Voltage**	≤0.05% ± 40mV	≤0.05% ± 40mV
	Current	≤0.1% ± 0.1%FS	≤0.1% ± 0.1%FS
Ripple noise	**Voltage**	≤50mVp-p	≤50mVp-p
	Current	≤30mArms	≤30mArms
Output temp drift coefficient (0℃-40℃)	**Voltage**	100ppm/℃	100ppm/℃
	Current	200ppm/℃	200ppm/℃

Readback temp drift coefficient	**Voltage**	100ppm/℃	100ppm/℃
	Current	200ppm/℃	200ppm/℃
Transient response (10%-90% rated load)		≤5.0ms	≤5.0ms
Working temperature		0-40℃	0-40℃
Display		4.3 inch TFT LCD screen	
Interface		USB, LAN, RS485, RS232	
Dimension		215.0mm(W) X 133.0mm(H) X 446.2mm(D)	
Weight		Approx. 7kg	Approx. 7kg

Interval Period of Adjustment:

One year is recommended for the calibration interval period.

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V1.0.0