

OWH80 Series Single-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.

Model		OWH80120-1800	OWH8080-2000
		1ch	1ch
Rated output (0°C-40°C)	Voltage	0-80V	0 -80V
	OVP	1V-85V	1V-85V
	Current	0-120A	0-80A
	OCP	1A-121A	1A-81A
	Power	1800W	2000W
Input power*	Volt/freq.	198V-240Vac ^{*1} ; 45Hz-65Hz	198V-240Vac ^{*1} ; 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	1mV	1mV
	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	≤100mVp-p	≤100mVp-p
	Current	≤100mArms	≤120mArms

Output temp drift coefficient (0°C-40°C)	Voltage	100ppm/°C	100ppm/°C
	Current	200ppm/°C	200ppm/°C
Readback temp drift	Voltage	100ppm/°C	100ppm/°C
	Current	200ppm/°C	200ppm/°C
Transient response (10%-90% rated load)		≤5.0ms	≤5.0ms
Working temperature		0-40°C	0-40°C
Display		4.3inch TFT LCD screen	
Interface		USB, LAN, RS485, RS232	
Dimension		215.0mm(W) X 133.0mm(H) X 446.2mm(D)	
Weight		Approx. 6kg	Approx. 6kg

***1: Input voltage: 100-120Vac, output power reduced by half.**

Model		OWH50120-1800 1ch
Rated output (0°C-40°C)	Voltage	0-50V
	OVP	1V-55V
	Current	0-120A
	OCP	1A-121A
	Power	1800W
Input power*	Volt/freq.	100V-240Vac ^{*1} ; 45Hz-65Hz
Load regulation (%of output+offset)	CV	≤0.03%+20mV
	CC	≤0.05%+30mA
Input power regulation (%of output+offset)	CV	≤0.03%+20mV
	CC	≤0.05%+30mA
Setting resolution	Voltage	10mV
	Current	1mA
Readback resolution	Voltage	1mV
	Current	1mA
Setting accuracy	Voltage	≤0.05% ± 40mV
	Current	≤0.1% ± 0.1%FS

Readback accuracy	Voltage	$\leq 0.05\% \pm 40\text{mV}$
	Current	$\leq 0.1\% \pm 0.1\%\text{FS}$
Ripple noise(*)	Voltage	$\leq 100\text{mVp-p}$
	Current	$\leq 100\text{mA}_{\text{rms}}$
Output temp drift coefficient (0°C-40°C)	Voltage	100ppm/°C
	Current	200ppm/°C
Readback temp drift	Voltage	100ppm/°C
	Current	200ppm/°C
Transient response (10%-90% rated load)		$\leq 5.0\text{ms}$
Working temperature		0-40°C
Display		4.3inch TFT LCD screen
Interface		USB, LAN, RS485, RS232
Size		215.0mm(W) X 133.0mm(H) X 446.2mm(D)
Weight		Approx. 7kg

***1: Input voltage: 100-120Vac, output power reduced by half.**

Interval Period of Adjustment:

One year is recommended for the calibration interval period.



V1.0.0