

Single Channel DC Power Supply

MPS-1000 Series



Features



Standard RS-232 ☒ SENSE ☒

Optional LAN ☐ RS-485 ☐ USB ☐ Analog control ☐

- Voltage 0.1mV, current 1uA display resolution
- Voltage compensation function ensures high precision
- Two ways to set voltage and current: numeric keypad and knob
- 100 preset storage and memory functions
- DVM voltmeter measurement function
- Waveform curve display function
- List sequence output function
- Battery charging function
- Resistance measurement function
- External USB drive with file saving and reading functions
- The rising slope of the power supply can be set
- Intelligent temperature controlled fan, extremely practical

Model		MPS-1001	MPS-1002	MPS-1003	MPS-1004	MPS-1005	MPS-1006
Rated output voltage		0~20V	0~20V	0~20V	0~36V	0~36V	0~36V
Rated output current		0~3A	0~6A	0~10A	0~1A	0~3A	0~6A
Rated output power		60W	120W	200W	36W	108W	216W
Load regulation rate	Voltage	0.05%+5mV	0.05%+8mV	0.05%+10mV	0.05%+5mV	0.05%+5mV	0.05%+8mV
	Current	0.1%+2mA	0.1%+2mA	0.1%+5mA	0.1%+2mA	0.1%+2mA	0.1%+2mA
Line regulation rate	Voltage	0.05%+5mV	0.05%+8mV	0.05%+10mV	0.05%+5mV	0.05%+5mV	0.05%+8mV
	Current	0.1%+2mA	0.1%+2mA	0.1%+5mA	0.1%+2mA	0.1%+2mA	0.1%+2mA
Setting resolution	Voltage	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV
	Current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Read back resolution	Voltage	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV
	Current	0.1mA/1uA	0.1mA/1uA	0.1mA/1uA	0.1mA/1uA	0.1mA/1uA	0.1mA/1uA
Setting accuracy (25°C±5°C)	Voltage	≤0.1%+5mV	≤0.1%+5mV	≤0.1%+5mV	≤0.1%+5mV	≤0.1%+5mV	≤0.1%+5mV
	Current	≤0.2%+1mA	≤0.2%+1mA	≤0.2%+1mA	≤0.2%+1mA	≤0.2%+1mA	≤0.2%+1mA
Read back accuracy (25°C±5°C)	Voltage	≤0.1%+1mV	≤0.1%+1mV	≤0.1%+1mV	≤0.1%+1mV	≤0.1%+1mV	≤0.1%+1mV
	Current	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA
Ripple and noise (25°C±5°C)	Voltage	3mVrms	3mVrms	5mVrms	3mVrms	3mVrms	3mVrms
	Current	3mA _{rms}	3mA _{rms}	5mA _{rms}	3mA _{rms}	3mA _{rms}	3mA _{rms}
Temperature coefficient	Voltage	300ppm	300ppm	300ppm	300ppm	300ppm	300ppm
	Current	300ppm	300ppm	300ppm	300ppm	300ppm	300ppm
Machine size (W*H*D)	mm	230*110*395	230*110*395	230*110*395	230*110*395	230*110*395	230*110*395
Packing size (W*H*D)	mm	300*195*480	300*195*480	300*195*480	300*195*480	300*195*480	300*195*480
Net weight	kg	6.7	4.5	6.7	7.5	5.6	7
Gross weight	kg	7.8	5.6	7.8	8.6	6.7	8
Rise time		< 20ms					

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Model		MPS-1007	MPS-1008	MPS-1009	MPS-1010	MPS-1011	MPS-1012
Rated output voltage		0~36V	0~60V	0~60V	0~60V	0~100V	0~150V
Rated output current		0~10A	0~1A	0~3A	0~5A	0~1A	0~1A
Rated output power		360W	60W	180W	300W	100W	150W
Load regulation rate	Voltage	0.05%+10mV	0.05%+5mV	0.05%+5mV	0.05%+8mV	0.05%+5mV	0.05%+5mV
	Current	0.1%+5mA	0.1%+2mA	0.1%+2mA	0.1%+2mA	0.1%+2mA	0.1%+2mA
Line regulation rate	Voltage	0.05%+10mV	0.05%+5mV	0.05%+5mV	0.05%+8mV	0.05%+5mV	0.05%+5mV
	Current	0.1%+5mA	0.1%+2mA	0.1%+2mA	0.1%+2mA	0.1%+2mA	0.1%+2mA
Setting resolution	Voltage	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV
	Current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Read back resolution	Voltage	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV
	Current	0.1mA/1uA	0.1mA/1uA	0.1mA/1uA	0.1mA/1uA	0.1mA/1uA	0.1mA/1uA
Setting accuracy (25°C±5°C)	Voltage	≤0.1%+5mV	≤0.1%+5mV	≤0.1%+5mV	≤0.1%+5mV	≤0.1%+5mV	≤0.1%+5mV
	Current	≤0.2%+1mA	≤0.2%+1mA	≤0.2%+1mA	≤0.2%+1mA	≤0.2%+1mA	≤0.2%+1mA
Read back accuracy (25°C±5°C)	Voltage	≤0.1%+1mV	≤0.1%+1mV	≤0.1%+1mV	≤0.1%+1mV	≤0.1%+1mV	≤0.1%+1mV
	Current	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA	≤0.2%+1mA/5uA
Ripple and noise (25°C±5°C)	Voltage	5mVrms	3mVrms	3mVrms	3mVrms	3mVrms	3mVrms
	Current	5mA _{rms}	3mA _{rms}	3mA _{rms}	3mA _{rms}	3mA _{rms}	3mA _{rms}
Temperature coefficient	Voltage	300ppm	300ppm	300ppm	300ppm	300ppm	300ppm
	Current	300ppm	300ppm	300ppm	300ppm	300ppm	300ppm
Machine size (W*H*D)	mm	230*110*395	230*110*395	230*110*395	230*110*395	230*110*395	230*110*395
Packing size (W*H*D)	mm	300*195*480	300*195*480	300*195*480	300*195*480	300*195*480	300*195*480
Net weight	kg	6.7	4.5	4.5	6.7	7.5	5.6
Gross weight	kg	7.8	5.6	5.6	7.8	8.6	6.7
Rise time		< 20ms					