

Single Channel DC Power Supply

MPS-1000 Series



Features

- 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



Standard RS-232 SENSE

| 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 | 300*195*480 | 300*195*480 | 300*195*480 | 300*195*480 | 300*195*480 | 300*195*480 |
| Packing size (W*H*D) | mm | 230*110*395 | 230*110*395 | 230*110*395 | 230*110*395 | 230*110*395 | 230*110*395 |
| 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} |
| 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 | | | | | |