## Single Output High Power Switching DC Power Supply



## - Introduction

The MPS series are high power output DC power supply with output range up to 5 kW . The MPS series can be made according to customer request, with output voltage up to 400 V and output current up to 150 A . Over Voltage Protection, Over Current Protection, Over Temperature Protection and Over Power Protection keep the MPS series and their load safe from unexpected conditions. High Accuracy, high stability and low ripple \& noise make the MPS series an ideal solution for various industrial applications.

## - Features

$\checkmark$ Max. output power ranging from 100 W to 5 kW
$\checkmark$ Max. output voltage 400 V , Max. output current 150 A
$\checkmark$ Applying advanced PWM control technology
$\checkmark$ Compact design and light weight ( $5 \sim 11 \mathrm{~kg}$ )
$\checkmark$ Constant voltage (CV) and constant current (CC) operations
$\checkmark$ Auto CV/CC switch
$\checkmark$ Coarse and Fine control for voltage and current
$\checkmark$ Multiple protections: OVP, OCP, OTP and OPP
$\checkmark$ Adjustable OVP \& OCP range, OPP fixed $110 \%$ of Max. power
$\checkmark$ Intelligent temperature control cooling fan
$\checkmark$ Optional Remote Voltage and Current Control
$\checkmark$ Optional Remote Sensing function
$\checkmark$ Customized specifications and functions acceptable

| Output capacity | 100W ~ 5kW |
| :---: | :---: |
| Working mode | PWM |
| Output |  |
| Output voltage | DC 0 100\% full range adjustable |
| Output current | DC 0 100\% full range adjustable |
| OVP range | DC 0 100\% of rated output |
| OCP range | DC 0 100\% of rated output |
| Line regulation | $\mathrm{CV} \leq 0.2 \%$ reading +2 digits |
|  | CC $\leq 0.5 \%$ reading +2 digits |
| Load regulation | $\leq 0.5 \%$ reading +2 digits |
| Ripple \& Noise | $\leq 1 \%$ RMS |
| Display |  |
| Voltmeter | $31 / 2$ digits LED display |
| Ammeter | $31 / 2$ digits LED display |
| Resolution | $100 \mathrm{mV} / 10 \mathrm{~mA}$ |
| Accuracy | $\pm(1 \%$ reading $\pm 1$ digit) |
| Optional functions |  |
| Remote sensing |  |
| DC 10~0V remote voltage control |  |
| DC 0~10V remote current control |  |
| Remote ON/OFF control | Short circuit to control OFF; Open circuit to control ON |
| Display meter | $41 / 2$ digits LED display |
| General |  |
| Protection | Over voltage, over current, over temperature and over power protections |
| Power source | AC110V or $220 \mathrm{~V} \pm 10 \%, 50 / 60 \mathrm{~Hz}$ |
| Input module | Power socket or terminal block |
| Operating environment | $0^{\circ} \mathrm{C} \sim 40^{\circ} \mathrm{C},<80 \% \mathrm{RH}$ |
| Storage environment | $-10^{\circ} \mathrm{C} \sim 70^{\circ} \mathrm{C},<80 \% \mathrm{RH}$ |
| Dimension | $260 \times 160 \times 380 \mathrm{~mm}$ |

Recommended Models For High Power DC Power Supply

| Model | Output Voltage | Output Current | Output Capacity | Input Module | Weight (kg) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MP-3040 | 0~30V | 0~40A | 1200W | Power socket | 5.6 |
| MP-3060 | 0~30V | 0~60A | 1800w | Power socket | 5.6 |
| MP-3080 | 0~30V | 0~80A | 2400w | Terminal block | 11 |
| MP-30100 | 0~30V | $0 \sim 100 \mathrm{~A}$ | 3000w | Terminal block | 11 |
| MP-30150 | $0 \sim 30 \mathrm{~V}$ | $0 \sim 150 \mathrm{~A}$ | 4500w | Terminal block | 11 |
| MP-6020 | $0 \sim 60 \mathrm{~V}$ | 0~20A | 1200w | Power socket | 5.6 |
| MP-6030 | $0 \sim 60 \mathrm{~V}$ | 0~30A | 1800w | Power socket | 5.6 |
| MP-6050 | $0 \sim 60 \mathrm{~V}$ | 0~50A | 3000w | Terminal block | 11 |
| MP-6080 | 0~60V | 0~80A | 4800w | Terminal block | 11 |
| MP-1H30 | $0 \sim 100 \mathrm{~V}$ | 0~30A | 3000w | Terminal block | 11 |
| MP-12010 | $0 \sim 120 \mathrm{~V}$ | 0~10A | 1200w | Power socket | 5.6 |
| MP-15030 | 0~150V | 0~30A | 4500w | Terminal block | 11 |
| MP-2H10 | 0~200V | 0~10A | 2000w | Power socket | 5.6 |
| MP-3H5 | 0~300V | 0~5A | 1500w | Power socket | 5.6 |
| MP-4H5 | 0~400V | 0~5A | 2000w | Power socket | 5.6 |

