

### Multi-Channel Adjustable DC power supply (LED)

#### MPS-3002L-3/MPS-3003L-3/MPS-3005L-3 MPS-3003LK-3/MPS-3005LK-3 MPS-3003TK-3/MPS-3005TK-3



### Feature:

- 0-30V, 0-2A/3A/5A Dual Channels adjustable and one fixed 5V/3A output
- Overload Protection
- Constant Voltage, Constant Current, Low ripple noise, Low temperature drift
- Pre-set current limited point
- In tracking mode, both outputs are automatically connected in series or parallel without extra cables
- In series mode, machine can be connected as positive and negative supply
- Multitune potentiometers, easy to set up voltage
- High efficient toroidal transformer
- Dual-color four LED Digital Panel Meters Voltage and Current Display
- MPS-3003LK-3/MPS-3005LK-3 have output standby function
- MPS-3003TK-3/MPS-3005TK-3 have output standby function plus voltage preset

MODEL	Output Voltage	Output Current	Output Standby	Voltage Preset	Fixed 5V/3A
MPS-3002L-3	0~30V	0~2A	NO	NO	YES
MPS-3003L-3	0~30V	0~3A	NO	NO	YES
MPS-3005L-3	0~30V	0~5A	NO	NO	YES
MPS-3003LK-3	0~30V	0~3A	YES	NO	YES
MPS-3005LK-3	0~30V	0~5A	YES	NO	YES
MPS-3003TK-3	0~30V	0~3A	YES	YES	YES
MPS-3005TK-3	0~30V	0~5A	YES	YES	YES

### Specification

Main Power Supply: 220V±10% 50Hz±2Hz  
110V/220V Switch selectable (Customer optional)  
Output Voltage: 0-30V  
Maximum output current: 2A/3A/5A

#### OPERATION MODE

Independent: Two independent outputs + 5V/3A fixed output. Output from 0V to max. Rating volts and from 0A to max. Rating current.  
Series: 0~60V / 2A / 3A / 5A  
Parallel: 0~30V / 4A / 6A / 10A

#### VOLTAGE

Line regulation: CV≤0.01%+3mV, CC≤0.2%+3mA  
Load regulation: CV≤0.01%+3mV (rating current≤3A), CC≤0.2%+3mA (rating current≤3A)  
CV≤0.02%+5mV (rating current>3A), CC≤0.2%+5mA (rating current>3A)  
Recovery time: ≤100μs  
Ripple & Noise: CV≤3mV rms  
Temperature coefficient: ≤300ppm/°C  
Constant Current Operation  
Output current range: 0A~rating current continuously adjustable

#### CURRENT

Line regulation: CC≤0.2%+3mA  
Load regulation: CC≤0.2%+3mA  
Ripple current: ≤3mA rms

#### TRACKING OPERATION

Line regulation: ≤0.01%+3mV;  
Load regulation: ≤0.01%+3mV (rating current≤3A);  
≤0.02%+5mV (rating current>3A)  
Series operation:  
Line regulation: ≤0.01%+5mV;  
Load regulation: ≤300mV  
Positive and Negative supply:  
Slave tracking error: ≤0.5%+10mV of the master (No load; if with load, please add load regulation≤300mV)

#### METER:

Voltage display: 3&1/2 Digits panel meter; Accuracy: (±0.5% of rdg +2 digits)  
Current display: 3&1/2 Digits panel meter; Accuracy: (±1% of rdg +2 digits)

#### FIXED 5V/3A OUTPUT SPECIFICATIONS

Voltage accuracy: 5V±0.25V  
Output current: 3A  
Regulation: Line regulation≤5mV,  
Load regulation≤15mV  
Ripple & Noise≤2mV rms  
Protection: Current limited and short circuit protection  
Operation Temperature & Humidity: 0°C to 40°C / <80%  
Storage Temperature & Humidity: -10°C to 70°C / <70%  
Work hours: more than 8 hours, 80% full load