



# POWER SUPPLY



- AC POWER SUPPLY
- DC POWER SUPPLY
- AC & DC POWER SUPPLY
- SWITCHING POWER SUPPLY
- PROGRAMMABLE DC POWER SUPPLY

## M10-SPN SERIES

### Features

- .Easy and safety operation for students
- .Mini and light
- .Novel design and various types for you

### Symmetrical adjustable DC power supply

#### SPN15-05C

#### Specifications

- .Output voltage:  $0 \sim \pm 15V$
- .Output current: 500mA
- .Load regulation: 20mV
- .Line regulation: 20mV
- .Ripple: 10mV
- .Display: 3 digits LCD with back light
- .Protection: Over current
- .Input Voltage: 220~240VAC  $\pm 10\%$ , 50Hz  
or 110~127VAC  $\pm 10\%$ , 60Hz
- .Dimensions: 108(W)×154(H)×240(D) mm
- .Weight: 2kg



**SPN15-05C**



**SPN15-1C**

### Symmetrical adjustable DC power supply

#### SPN15-1C

#### Specifications

- .Output voltage:  $0 \sim \pm 15V$
- .Output current: 1A
- .Load regulation: 20mV
- .Line regulation: 20mV
- .Ripple: 10mV
- .Display: 3 digits LCD with back light
- .Protection: Over current
- .Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz  
or 110~127VAC  $\pm 10\%$ , 60Hz
- .Dimensions: 108(W)×154(H)×240(D) mm
- .Weight: 3kg

## M10-SPN SERIES

### Features

- .Easy and safety operation for students
- .Mini and light
- .Novel design and various types for you

### 110V adjustable DC power supply

#### SPN110-01C

#### Specifications

- .Output voltage: 0~110V
- .Output current: 100mA
- .Load regulation: 20mV
- .Line regulation: 20mV
- .Ripple: 20mV
- .Display: 3 1/2 digits LCD with back light
- .Protection: Over current
- .Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz  
or 110~127VAC  $\pm 10\%$ , 60Hz
- .Dimensions: 108(W) $\times$ 154(H) $\times$ 240(D) mm
- .Weight: 2kg



SPN110-01C



SPN300-03C

### 300V adjustable DC power supply

#### SPN300-03C

#### Specifications

- .Output voltage: 0~300V
- .Output current: 300mA
- .Load regulation: 30mV
- .Line regulation: 30mV
- .Ripple: 50mV
- .Display: 3 digits LCD with back light
- .Protection: Over current
- .Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz  
or 110~127VAC  $\pm 10\%$ , 60Hz
- .Dimensions: 108(W) $\times$ 154(H) $\times$ 240(D) mm
- .Weight: 5kg

### High voltage adjustable power supply

#### SPN6000A

#### Specifications

- .Output voltage: 0~6kVDC/3mA, 6.3VAC/3A
- .Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz  
or 110~127VAC  $\pm 10\%$ , 60Hz
- .Dimensions: 108(W) $\times$ 154(H) $\times$ 240(D) mm
- .Weight: 5kg



SPN6000A

## M10-DC152



*Symmetrical adjustable DC power supply*

### Features

- .Symmetrical adjustable DC voltage source for electronic circuits
- .5VDC voltage source for digital circuits
- .2 1/2 digits LED for voltage display
- .Current-limit protection



**M10-DC152**

### Specifications

- .Output voltage: (1) 0~±15V, 0~30V  
(2) 5V
- .Output current: (1) 1.5A  
(2) 0.5A
- .Load regulation: (1) (2)5mV
- .Line regulation: (1)5mV  
(2) 10mV
- .Ripple: (1) (2)1.5mV
- .Protection: over current
- .Display accuracy: ±(0.2%Rdg+2digits)
- .Input voltage: 110~127VAC±10% 60Hz  
220~240VAC ±10% 50Hz switchable
- .Dimensions(W×H×D): 175(W)×180(H)×270(D) mm
- .Weight: 3.5kg

## M10-AC30-03



*AC power supply*

### Features

- .Output voltage and current continuously adjustable
- .LED meters for both voltage and current display
- .Over current protection
- .Isolative safety



**M10-AC30-03**

### Specifications

- .Input voltage: 230(220) VAC/115(110) VAC, 50Hz/60Hz
- .Output voltage: 0~30VAC (full load)
- .Output current: 0~3A (full load)
- .Protection: over current
- .Display accuracy: Voltmeter ±(2.5%Rdg+2digits)  
Ammeter ±(2.5%Rdg+2digits)
- .Dimension(W×H×D): 175×180×270 mm
- .Weight: 3.5kg

## M10-AD123



NEW

### AC & DC power supply

#### Features

- .Both AC and DC output (DC regulated)
- .DC continuously adjustable
- .Electrically isolated AC output
- .Analog meter for DC voltage display
- .Current-limit protection for DC output



M10-AD123

#### Specifications

##### .DC output:

- .Output voltage: 0~12V
- .Output current: 3A
- .Load regulation: 5mV
- .Line regulation: 1mV
- .Ripple: 1mV
- .Protection: over current
- .Display accuracy: 2.5%

##### .AC output:

- .Output voltage: 3V, 6V, 9V, 12V
- .Output current: 3A

- .Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz or 110~127VAC  $\pm 10\%$ , 60Hz
- .Dimensions: 175(W) $\times$ 180(H) $\times$ 270(D) mm
- .Weight: 3kg

## M10-AD150-7



NEW

### AC & DC power supply

#### Features

- .Both AC and DC output (DC regulated)
- .DC continuously adjustable and AC step-by-step
- .LED meters for both voltage and current display
- .Current-limit protection for DC output
- .Short-circuit protection for AC output
- .Over heat protection for the device



M10-AD150-7

#### Specifications

##### .DC output:

- .Output voltage: 0~15V
- .Output current: 7A
- .Load regulation: 5mV
- .Line regulation: 2mV
- .Ripple: 2mV

##### .AC output:

- .Output voltage: 1.5V ~ 15V
- .Output current: 7A

- .Display accuracy: DC voltmeter  $\pm(0.2\%Rdg+2digits)$   
DC ammeter  $\pm(1.0\%Rdg+3digits)$   
AC ammeter  $\pm(1.5\%Rdg+5digits)$
- .Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz or 110~127VAC  $\pm 10\%$ , 60Hz
- .Dimensions: 175(W) $\times$ 180(H) $\times$ 270(D) mm
- .Weight: 5kg

## M10-AD153



M10-AD153

### Features

- . Both AC and regulated DC output
- . DC continuously adjustable
- . DC electronic current protection
- . AC selectable output voltage
- . AC circuit breaker protection

### Specifications

DC Output voltage: 0~12V  
 DC Output current: 3A  
 Load regulation: 750mV  
 Line regulation: 20mV  
 Ripple & noise: 15mV

AC Output voltage: 2V, 4V, 6V, 12V  
 AC Output current: 3A

Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz or 110~127  $\pm 10\%$ , 60Hz  
 Dimensions (W x H x D): 220mm x 133mm x 193mm  
 Weight: 3kg

## M10-AD158



M10-AD158

### Features

- . Stepped voltage of 0-15V in one volt step for both AC and DC
- . DC slightly smoothed
- . Special key lock function
- . Maximum (ceiling) voltage settable
- . Digital output voltage display
- . AC or DC continuously rated output of 8.5A, or added sum of 8.5A

### Specifications

DC output voltage: 0~15V (1V step)  
 DC output current: 8.5A

AC output voltage: 0~15V (1V step)  
 AC output current: 8.5A  
 Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz or 110~127  $\pm 10\%$ , 60Hz  
 Dimensions (W x H x D): 220mm x 203mm x 122mm  
 Weight: 3.5kg

## M10-AD350T SERIES



### Features

- .Both AC and DC output (DC regulated)
- .Easy operation
- .DC output over current , AC input fuse protection

### M10-AD350T-5

#### Specifications

- .AC output: 6V/5A, 12V/5A
- .DC output voltage: 6V, 12V
- .DC output current: 5A
- .DC line regulation: 3%
- .DC load regulation: 5%
- .DC ripple voltage: 30mV
- .Input voltage: 220~240VAC  $\pm$  10%, 50Hz or 110~127VAC  $\pm$  10%, 60Hz
- .Dimensions(W×H×D): 150 × 110 × 215 mm
- .Weight: 4.5kg



M10-AD350T-5

### M10-AD350T-10

#### Specifications

- .AC output: 6V/10A, 12V/10A, 24V/5A
- .DC output voltage: 6V, 12V, 24V
- .DC output current: 10A
- .DC line regulation: 3%
- .DC load regulation: 5%
- .DC ripple voltage: 50mV
- .Output accuracy: 2.5%
- .Input voltage: 220~240VAC  $\pm$  10%, 50Hz or 110~127VAC  $\pm$  10%, 60Hz
- .Dimensions(W×H×D): 215 × 120 × 260mm
- .Weight: 6kg



M10-AD350T-10

## M10-AD350M SERIES



### Features

- .Both AC and DC output (DC regulated)
- .Output 1~15V in 15steps
- .Over current protection
- .Transformer thermal protection

### Specifications

- .Output voltage: 1V, 2V, 3V, 4V, 5V, 6V, 7V, 8V, 9V, 10V, 11V, 12V, 13V, 14V, 15V
- .DC line regulation: 1%
- .DC load regulation: 1%
- .DC ripple voltage: 3mV
- .Input voltage: 220~240VAC  $\pm$  10%, 50Hz or 110~127VAC  $\pm$  10%, 60Hz
- .Protection: Over current, short-circuit protection



M10-AD350M-10

Model	Output current	Dimensions(W×D×H)	Weight(kg)
M10-AD350M-5	5A	170×160×250mm	5
M10-AD350M-10	10A	170×160×250mm	6.3

## M10-AD360 SERIES



### Features

- .Both AC and DC output (DC unregulated)
- .AC and DC output voltage synchronization
- .LED meters for both voltage and current
- .DC smoothing function

### Specifications

- .Output power: Max.120VA (M10-AD360-2)  
Max.300VA (M10-AD360-5)
- .Display accuracy: Voltmeter  $\pm(2.5\%Rdg+2digits)$   
Ammeter  $\pm(2.5\%Rdg+2digits)$
- .Protection: Over current
- .Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz or 110~127VAC  $\pm 10\%$ , 60Hz



M10-AD360-5

Model	Output Voltage	Output Current	Dimensions(W×D×H)	Weight (kg)
M10-AD360-2	0~30V	2A	260×160×260mm	7.5
M10-AD360-5	0~30V	5A	260×160×260mm	10

## M10-AD370



### Features

- .AC and DC combined power supply
- .DC constant voltage and constant current
- .AC output current limited and continuously adjusting
- .AC output over load electronic protection

### Specifications

#### DC output

- .Output voltage: 0~30V
- .Output current: 0~6A
- .Line regulation: CV  $1 \times 10^{-4} + 3mV$  CC  $2 \times 10^{-3} + 3mA$
- .Load regulation: CV  $1 \times 10^{-4} + 5mV$  CC  $2 \times 10^{-3} + 5mA$
- .Ripple & Noise: CV 1mVrms CC 3mArms
- .Display accuracy: Voltmeter  $\pm(0.2\%Rdg+2digits)$   
Ammeter  $\pm(1.0\%Rdg+2digits)$

#### AC output

- .Output voltage: 0~30V
- .Output current: 0~6A
- .Display accuracy: Voltmeter  $\pm(1.0\%Rdg+2digits)$   
Ammeter  $\pm(1.0\%Rdg+2digits)$
- .Input voltage: 220~240VAC  $\pm 10\%$ , 50Hz or 110~127VAC  $\pm 10\%$ , 60Hz
- .Dimensions: 380(W)×140(H)×300(D)mm
- .Weight: 12kg



M10-AD370



## M10-AD22 SERIES



### Features

- .AC and DC combined power supply
- .DC constant voltage and constant current
- .AC output over load protection
- .19-inch rack mount (3U) and benchtop
- .Output from front panel and rear panel
- .Temperature controlled fan

### Specifications

#### DC output

- .Line regulation: CV  $1 \times 10^{-4} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$   
Fixed output 10mV
- .Load regulation: CV  $1 \times 10^{-4} + 5\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$   
Fixed output 10mV
- .Ripple & Noise: CV 1mVrms CC 3mArms  
Fixed output 10mV
- .Fixed output accuracy: 2.5%
- .Display accuracy: Voltmeter  $\pm(0.2\% \text{Rdg} + 2\text{digits})$   
Ammeter  $\pm(1.0\% \text{Rdg} + 2\text{digits})$

#### AC output

- .Display accuracy: Voltmeter  $\pm(1.0\% \text{Rdg} + 2\text{digits})$   
Ammeter  $\pm(1.0\% \text{Rdg} + 2\text{digits})$
- .Input voltage: 110~127VAC  $\pm 10\%$ , 220~240VAC  $\pm 10\%$  Switchable

Model	DC Output Voltage	DC Output Current	AC Output Voltage	AC Output Current	Size	Weight (kg)
M10-AD2205	0~30V,5V	0~5A,3A	0~250V	2.5A	19" 3U	14
M10-AD2210	0~30V,5V	0~5A,3A	0~250V	4.5A	19" 3U	16



M10-AD2210

## M10-AD3030 SERIES

### Features

- .AC and DC combined power supply
- .DC constant voltage and constant current
- .AC output over load protection
- .19-inch rack mount (3U) and benchtop
- .Temperature controlled fan

### Specifications

#### DC output

- .Line regulation: CV  $6 \times 10^{-4} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$
- .Load regulation: CV  $3 \times 10^{-3} + 5\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$
- .Ripple & Noise: CV 50mVrms CC 50mArms
- .Display accuracy: Voltmeter  $\pm(1.0\% \text{Rdg} + 2\text{digits})$   
Ammeter  $\pm(1.0\% \text{Rdg} + 2\text{digits})$

#### AC output

- .Display accuracy: Voltmeter  $\pm(1.0\% \text{Rdg} + 2\text{digits})$   
Ammeter  $\pm(1.0\% \text{Rdg} + 2\text{digits})$

- .Input voltage: 110~127VAC  $\pm 10\%$ , 220~240VAC  $\pm 10\%$  Switchable
- .Dimensions: 19" 3U
- .Weight: 22kg

Model	DC Output Voltage	DC Output Current	AC Output Voltage	AC Output Current
M10-AD3030	0~30V	0~30A	0~30V	0~30A
M10-AD3030W	0~30V	0~30A	I 0~30V	I 0~30A
			II 0~250V	II 0~4A



M10-AD3030W



M10-AD3030

## CC SERIES



**CC115**

### CC115

#### Features

- .Constant current output
- .Continuously adjustable output current
- .Short circuit and over voltage protection
- .3 digits LCD current meter

#### Specifications

- .Output current: 0~1A(3 steps)
- .Max. voltage: 15V
- .Resolution: 100  $\mu$  A(0~20mA)  
1mA(20~200mA)  
10mA(200mA~1A)
- .Load regulation: 1%
- .Line regulation: 1%
- .Display: 3 digits LCD with back light
- .Input voltage: 110~127VAC  $\pm$  10% 60Hz,  
220~240VAC  $\pm$  10% 50Hz switchable
- .Dimensions: 108(W)  $\times$  154(H)  $\times$  240(D) mm
- .Weight: 2kg

### CC225

#### Features

- .Constant current output
- .Continuously adjustable
- .Short circuit and over voltage protection
- .3 1/2digits LCD current meter

#### Specifications

- .Output current: 0~2A(4 steps)
- .Max. voltage: 25V
- .Resolution: 10  $\mu$  A(0~20mA)  
100  $\mu$  A(20~100~200mA)  
1mA(200mA~2A)
- .Load regulation: 0.2%
- .Line regulation: 0.2%
- .Display: 3 1/2digits LCD with back light
- .Input voltage: 110~127VAC  $\pm$  10% 60Hz  
220~240VAC  $\pm$  10% 50Hz switchable
- .Dimension: 132(W)  $\times$  160(H)  $\times$  270(D) mm
- .Weight: 4kg



**CC225**

## CL & CM SERIES

### Features

- . Single output and compact design, desktop efficient
- . Constant voltage and constant current

### Specifications

- . Line regulation:  $\leq 10\text{mV}$
- . Load regulation:  $\leq 10\text{mV}$
- . Ripple & noise:  $\leq 1\text{mV}$
- . Display accuracy: Voltmeter  $\pm(0.5\%\text{Rdg}+2\text{digits})$  (CL153, CL303)  
Ammeter  $\pm(1.0\%\text{Rdg}+2\text{digits})$  (CL153, CL303)  
 $\leq 2.5\%$  (CM153, CM303)
- . Input voltage: 110~127VAC  $\pm 10\%$  60Hz or 220~240  $\pm 10\%$  50Hz

Model	Voltage	Current	Resolution	Dimensions (W×H×D)	Weight (kg)
CL153	0~15V	0~3A	100mV/10mA	95×155×240 mm	2.2
CM153	0~15V	0~3A	2.5%		
CL303	0~30V	0~3A	100mV/10mA		
CM303	0~30V	0~3A	2.5%	95×155×240 mm	3.2
CL305	0~30V	0~5A	100mV/10mA		
CM305	0~30V	0~5A	2.5%		



CM303



CL153

# HIGH VOLTAGE & MULTI OUTPUT DC POWER SUPPLY

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

MACHINE

ACCESSORY

## M10-HV SERIES



### Features

- .High-voltage source for operation of electron tubes
- .Built-in high voltage resistant transformer to supply the filament for electron tubes
- .Continuously adjustable high voltage with passive current limit and voltage display
- .Floating and safe to touch

### Specifications

- .Input voltage: 220~240VAC  $\pm$  10% 50Hz
- .Line regulation:  $\leq$  0.1%
- .Load regulation:  $\leq$  0.1%
- .Dimensions: 170(W) $\times$ 160(H) $\times$ 250(D)mm
- .Weight: 6kg



M10-HV10000A

Model	High Voltage Output	AC Output
M10-HV10000A	0~10000V/10mA	6.3V/3A
M10-HV6000A	0~6000V/10mA	6.3V/3A
M10-HV5000A	0~5000V/10mA	6.3V/3A

## M10-QP100



### Features

- .Quad independent DC outputs
- .Two adjustable outputs and two fixed outputs
- .Two LED to indicate the adjustable outputs' voltage
- .Three symmetric outputs
- .Over current protection on each output



M10-QP100

### Specifications

#### .Output1:

- .Output Voltage: 0~30V
- .Output Current: Max. 5A
- .Line Regulation: 0.01%+3mV
- .Load Regulation: 0.01%+4mV
- .Ripple & Noise: 1mV
- .Display Accuracy: Voltmeter  $\pm$ (0.2%Rdg+2digits)

#### .Output2:

- .Output Voltage: 0~ $\pm$ 15V
- .Output Current: Max. 500mA
- .Line Regulation: 0.01%+3mV
- .Load Regulation: 0.01%+4mV
- .Ripple & Noise: 1mV
- .Display Accuracy: Voltmeter  $\pm$ (0.2%Rdg+2digits)

#### .Output3:

- .Output Voltage:  $\pm$ 15V
- .Output Current: Max. 1A
- .Line Regulation: 1%
- .Load Regulation: 1%
- .Ripple & Noise: 5mV

#### .Output4:

- .Output Voltage:  $\pm$ 5V
- .Output Current: Max. 1A
- .Line Regulation: 1%
- .Load Regulation: 1.5%
- .Ripple & Noise: 2.5mV

- .Input Voltage: 110~127VAC  $\pm$  10% 60Hz, 220~240VAC  $\pm$  10% 50Hz, Switchable
- .Dimensions: 260(W) $\times$ 160(H) $\times$ 340(D)mm
- .Weight: 8kg

# SINGLE OUTPUT ADJUSTABLE DC POWER SUPPLY

## M10-QS SERIES

### Features

- . 16 hours continuously output with full load
- . Over voltage protection & preset function
- . Current preset function
- . **USB power output (5V/2A)**
- . Constant voltage and constant current
- . Low ripple and noise
- . CV/CC auto switching
- . 3 digits LED display (4 digits LED display is optional)

### Specifications

- .Line regulation: CV  $\leq 5 \times 10^{-4} + 3\text{mV}$  (M10-QS30XX, M10-QS60XX)  $\leq 1 \times 10^{-4} + 3\text{mV}$  (Other models)  
 CC  $\leq 4 \times 10^{-3} + 3\text{mA}$  (M10-QS30XX, M10-QS60XX)  $\leq 2 \times 10^{-3} + 3\text{mA}$  (Other models)
- .Load regulation: M10-QS30XX, M10-QS60XX :  
 CV  $\leq 5 \times 10^{-4} + 3\text{mV}$  (output current  $\leq 10\text{A}$ )  $\leq 1 \times 10^{-3} + 3\text{mV}$  (output current  $> 10\text{A}$ )  
 CC  $\leq 4 \times 10^{-3} + 3\text{mA}$   
 Other models :  
 CV  $\leq 1 \times 10^{-4} + 3\text{mV}$  (output current  $\leq 3\text{A}$ )  $\leq 2 \times 10^{-4} + 3\text{mV}$  ( $3\text{A} \leq$  output current  $< 10\text{A}$ )  
 CC  $\leq 1 \times 10^{-3} + 3\text{mA}$  (output current  $\leq 3\text{A}$ )  $\leq 2 \times 10^{-3} + 3\text{mA}$  ( $3\text{A} \leq$  output current  $< 10\text{A}$ )
- .Ripple & noise: CV 1.5mVrms CC 3mArms
- .Display accuracy:  $\pm(0.5\%R_{dg} + 2\text{digits})$
- .Input voltage: 110~127VAC  $\pm 10\%$  60Hz, 220~240  $\pm 10\%$  50Hz Switchable

Model	Voltage	Current	Over voltage protection & preset	Dimensions (W×H×D)	Weight (kg)
M10-QS302	0~30V	0~2A		130×165×305 mm	5
M10-QS303	0~30V	0~3A		130×165×305 mm	5
M10-QS305	0~30V	0~5A		130×165×325 mm	6
M10-QS3010	0~30V	0~10A	✓	255×155×320 mm	9
M10-QS3020	0~30V	0~20A	✓	255×155×320 mm	9
M10-QS603	0~60V	0~3A		130×165×305 mm	5
M10-QS605	0~60V	0~5A	✓	255×155×320 mm	11.5
M10-QS6010	0~60V	0~10A	✓	255×155×320 mm	15
M10-QS1001	0~100V	0~1A		255×155×320 mm	5.5
M10-QS1003	0~100V	0~3A	✓	255×155×320 mm	9
M10-QS1005	0~100V	0~5A	✓	255×155×320 mm	14
M10-QS2001	0~200V	0~1A	✓	255×155×320 mm	7
M10-QS2003	0~200V	0~3A	✓	255×155×320 mm	15
M10-QS3030	0~30V	0~30A	✓	255×155×480 mm	18
M10-QS6020	0~60V	0~20A	✓	255×155×480 mm	20
M10-QS2005	0~200V	0~5A	✓	255×155×480 mm	18



M10-QS305



M10-QS3010

# DUAL OUTPUT ADJUSTABLE DC POWER SUPPLY

## M10-QD SERIES

### Features

- Output off function
- Dual independent adjustable DC outputs
- USB power output (5V/2A)
- Independent, series and parallel variety output
- Constant voltage and constant current
- Low ripple and noise
- Four LED displays with 3 digits, selectable for two sets output voltage and current display simultaneously
- 16 hours continuous output with full load
- Auto tracking output



M10-QD305

### Specifications

- Line regulation: CV  $\leq 5 \times 10^{-4} + 3\text{mV}$  (M10-QD30XX, M10-QD60XX)  $\leq 1 \times 10^{-4} + 3\text{mV}$  (Other models)  
CC  $\leq 4 \times 10^{-3} + 3\text{mA}$  (M10-QD30XX, M10-QD60XX)  $\leq 2 \times 10^{-3} + 3\text{mA}$  (Other models)
- Load regulation: M10-QS30XX, M10-QS60XX :  
CV  $\leq 5 \times 10^{-4} + 3\text{mV}$  (output current  $\leq 10\text{A}$ )  $\leq 1 \times 10^{-3} + 3\text{mV}$  (output current  $> 10\text{A}$ )  
CC  $\leq 4 \times 10^{-3} + 3\text{mA}$   
Other models :  
CV  $\leq 1 \times 10^{-4} + 3\text{mV}$  (output current  $\leq 3\text{A}$ )  $\leq 2 \times 10^{-4} + 3\text{mV}$  ( $3\text{A} \leq$  output current  $< 10\text{A}$ )  
CC  $\leq 1 \times 10^{-3} + 3\text{mA}$  (output current  $\leq 3\text{A}$ )  $\leq 2 \times 10^{-3} + 3\text{mA}$  ( $3\text{A} \leq$  output current  $< 10\text{A}$ )
- Ripple & noise: CV 1.5mVrms CC 3mArms
- Display accuracy:  $\pm (0.5\% \text{Rdg} + 2\text{digits})$
- Input voltage: 110~127VAC  $\pm 10\%$  60Hz, 220~240  $\pm 10\%$  50Hz Switchable

Model	Independent Output	Series Output	Parallel Output	Dimensions (W×H×D)	Weight (kg)
M10-QD302	CH1 0~30V/0~2A CH2 0~30V/0~2A	CH1+CH2 0~60V/0~2A	CH1//CH2 0~30V/0~4A	255 × 155 × 320 mm	9
M10-QD303	CH1 0~30V/0~3A CH2 0~30V/0~3A	CH1+CH2 0~60V/0~3A	CH1//CH2 0~30V/0~6A	255 × 155 × 320 mm	9
M10-QD305	CH1 0~30V/0~5A CH2 0~30V/0~5A	CH1+CH2 0~60V/0~5A	CH1//CH2 0~30V/0~10A	255 × 155 × 320 mm	9
M10-QD3010	CH1 0~30V/0~10A CH2 0~30V/0~10A	CH1+CH2 0~60V/0~10A	CH1//CH2 0~30V/0~20A	255 × 155 × 480 mm	12
M10-QD3020	CH1 0~30V/0~20A CH2 0~30V/0~20A	CH1+CH2 0~60V/0~20A	CH1//CH2 0~30V/0~40A	255 × 155 × 480 mm	16
M10-QD6010	CH1 0~60V/0~10A CH2 0~60V/0~10A	CH1+CH2 0~120V/0~10A	CH1//CH2 0~60V/0~20A	255 × 155 × 480 mm	16

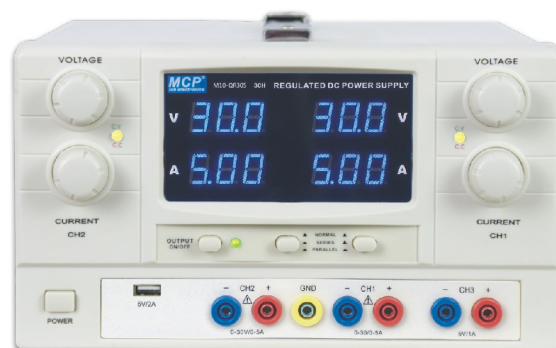
# TRIPLE OUTPUT ADJUSTABLE DC POWER SUPPLY

## M10-QR SERIES



### Features

- . Output off function
- . Triple independent DC outputs. Two adjustable and one fixed output
- . USB power output (5V/2A)
- . Independent, series and parallel variety output
- . Constant voltage and constant current
- . Low ripple and noise
- . Four LED displays with 3 digits, selectable for two sets output voltage and current display simultaneously
- . 16 hours continuous output with full load
- . Auto tracking output



**M10-QR305**

### Specifications

- .Line regulation: CV  $1 \times 10^{-4} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$  (CH1, CH2)  
5mV (Fixed output)
- .Load regulation: CV  $1 \times 10^{-4} + 4\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$  (CH1, CH2)  
15mV (Fixed output)
- .Ripple & noise: CV 1mVrms CC 3mArms (CH1, CH2)  
2mVrms (Fixed output)
- .Display accuracy:  $\pm (0.5\% \text{Rdg} + 2\text{digits})$
- .Input voltage: 110~127VAC  $\pm 10\%$  60Hz, 220~240  $\pm 10\%$  50Hz Switchable

Model	Independent Output	Series Output	Parallel Output	Dimensions (W×H×D)	Weight (kg)
M10-QR302	CH1 0~30V/0~2A CH2 0~30V/0~2A CH3 3A/5V	CH1+CH2 0~60V/0~2A	CH1//CH2 0~30V/0~4A	255 × 155 × 320 mm	8.2
M10-QR303	CH1 0~30V/0~3A CH2 0~30V/0~3A CH3 3A/5V	CH1+CH2 0~60V/0~3A	CH1//CH2 0~30V/0~6A	255 × 155 × 320 mm	8.2
M10-QR305	CH1 0~30V/0~5A CH2 0~30V/0~5A CH3 3A/5V	CH1+CH2 0~60V/0~5A	CH1//CH2 0~30V/0~10A	255 × 155 × 320 mm	9

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# QUAD OUTPUT ADJUSTABLE DC POWER SUPPLY

## M10-QP SERIES



### Features

- . Output off function
- . Quad independent DC outputs
- . USB power output (5V/2A)
- . Independent, series and parallel variety output
- . Constant voltage and constant current
- . Low ripple and noise
- . Plastic panel
- . Four LED displays with 3 digits, selectable for two sets output voltage and current display simultaneously



**M10-QP305**

### Specifications

- .Line regulation: CV  $1 \times 10^{-4} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$  (CH1, CH2)  
5mV (CH3, CH4)
- .Load regulation: CV  $1 \times 10^{-4} + 4\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$  (CH1, CH2)  
15mV (CH3, CH4)
- .Ripple & noise: CV 1mVrms CC 3mArms (CH1, CH2)  
2mVrms (CH3, CH4)
- .Display accuracy:  $\pm (0.5\% \text{Rdg} + 2\text{digits})$
- .Input voltage: 110~127VAC  $\pm 10\%$  60Hz, 220~240  $\pm 10\%$  50Hz Switchable

Model	Independent Output	Series Output	Parallel Output	Dimensions (W×H×D)	Weight (kg)
M10-QP303	CH1 0~30V/0~3A CH2 0~30V/0~3A CH3 3~6.5V/3A CH4 8~15V/1A	CH1+CH2 0~60V/0~3A CH3 3~6.5V/3A CH4 8~15V/1A	CH1//CH2 0~30V/0~6A CH3 3~6.5V/3A CH4 8~15V/1A	255 × 155 × 320 mm	8.5
M10-QP305	CH1 0~30V/0~5A CH2 0~30V/0~5A CH3 3~6.5V/3A CH4 8~15V/1A	CH1+CH2 0~60V/0~5A CH3 3~6.5V/3A CH4 8~15V/1A	CH1//CH2 0~30V/0~10A CH3 3~6.5V/3A CH4 8~15V/1A	255 × 155 × 320 mm	9.5

# M30 SERIES DC POWER SUPPLY

## M30-SP & TP & YP SERIES



### Features

- .Output off function
- .Constant voltage and constant current
- .Aluminium alloy panel
- .Series and parallel tracking function (M30-TP Series)
- .One adjustable output & two fixed outputs (M30-YP Series)

### Specifications

- .Line regulation: CV  $1 \times 10^{-4} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$   
Fixed output 10mV (M30-TP Series)  
Fixed output 1% (M30-YP Series)
- .Load regulation: CV  $1 \times 10^{-4} + 4\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$   
Fixed output 10mV (M30-TP Series)  
Fixed output 1% (M30-YP Series)
- .Ripple & noise: CV 1mVrms CC 3mArms  
Fixed output 10mV (M30-TP & YP Series)
- .Fixed Output accuracy: 2.5% (M30-TP & YP Series)
- .Display accuracy: Voltmeter  $\pm (0.2\% \text{Rdg} + 2\text{digits})$   
Ammeter  $\pm (1.0\% \text{Rdg} + 2\text{digits})$
- .Input voltage: 110~127VAC  $\pm 10\%$  60Hz, 220~240  $\pm 10\%$  50Hz  
Switchable



M30-SP305E



M30-YP305E



M30-TP305E

Model	Voltage	Current	Dimensions(W × H × D)	Weight
M30-SP202E	0~20V	0~2A	132 × 160 × 270mm	5kg
M30-SP303E	0~30V	0~3A	132 × 160 × 270mm	5kg
M30-SP305E	0~30V	0~5A	132 × 160 × 270mm	6kg

Model	Voltage	Current	Dimensions(W × H × D)	Weight
M30-TP202E	0~20V × 2 5V	0~2A × 2 3A	260 × 160 × 340mm	10kg
M30-TP303E	0~30V × 2 5V	0~3A × 2 3A	260 × 160 × 340mm	10kg
M30-TP305E	0~30V × 2 5V	0~5A × 2 3A	260 × 160 × 340mm	12kg

Model	Output 1	Output 2	Output 3	Dimensions(W × H × D)	Weight
M30-YP202E	0~20V 0~2A	12V 500mA	5V 500mA	170 × 160 × 250mm	6kg
M30-YP303E	0~30V 0~3A	12V 500mA	5V 500mA	170 × 160 × 250mm	6kg
M30-YP305E	0~30V 0~5A	12V 500mA	5V 500mA	170 × 160 × 250mm	7kg

POWER SUPPLY

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# M50 SERIES PROGRAMMABLE DC POWER SUPPLY

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## M50 SERIES PROGRAMMABLE DC POWER SUPPLY

M50 series are easy-use programmable linear DC power supply, upgrading from M10 and M30 series classical power supply.

The panel setting is same as most linear DC power supply, no any number key and no more function key. As well as having M10, M30 series features, they have timed outputs of voltage and current, a compact and clear user interface with PC and a standard USB, so the programming become a very simple work.

M50 series programmable DC power supply meet the requirements of various forms desktop and integrated system testing.

They are widely used in research and development, education, training, industrial control, mobile communication, and product testing, debug etc.



### Advanced functions

Panel setting:



PC software interface:



# M50 SERIES PROGRAMMABLE DC POWER SUPPLY

## M50-SP SINGLE PROGRAMMABLE DC POWER SUPPLY



M50-SP305E

### Features

- .Single output
- .Output off function
- .LED digit display and setting
- .Standard interface USB
- .Constant voltage and constant current
- .Aluminium alloy panel

### Specifications

- .Line regulation: CV  $1 \times 10^{-4} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$
- .Load regulation: CV  $1 \times 10^{-4} + 4\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$
- .Ripple & noise: CV 3mVrms CC 3mArms
- .Display accuracy: Voltmeter  $\pm (0.2\% \text{Rdg} + 2\text{digits})$   
Ammeter  $\pm (1.0\% \text{Rdg} + 2\text{digits})$
- .Input voltage: 110~127VAC  $\pm 10\%$  60Hz, 220~240  $\pm 10\%$  50Hz  
Switchable

Model	Voltage	Current	Dimensions(W × H × D)	Weight
M50-SP202E	0~20V	0~2A	132×160×270mm	5kg
M50-SP303E	0~30V	0~3A	132×160×270mm	5kg
M50-SP305E	0~30V	0~5A	132×160×270mm	6kg



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## M50-YP MULTI-OUTPUTS PROGRAMMABLE DC POWER SUPPLY



### Features

- .One adjustable output and two fixed outputs
- .Output off function
- .LED digit display and setting
- .Standard interface USB
- .Constant voltage and constant current
- .Aluminium alloy panel



**M50-YP305E**

### Specifications

- .Line regulation: CV  $1 \times 10^{-4} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$   
Fixed output 1%
- .Load regulation: CV  $1 \times 10^{-4} + 4\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$   
Fixed output 1%
- .Ripple & noise: CV 3mVrms CC 3mArms  
Fixed output 10mV
- .Fixed output accuracy: 2.5%
- .Display accuracy: Voltmeter  $\pm (0.2\% \text{Rdg} + 2\text{digits})$   
Ammeter  $\pm (1.0\% \text{Rdg} + 2\text{digits})$
- .Input voltage: 110~127VAC  $\pm 10\%$  60Hz, 220~240  $\pm 10\%$  50Hz  
Switchable

Model	Output 1	Output 2	Output 3	Dimensions(W × H × D)	Weight
M50-YP202E	0~20V 0~2A	12V 500mA	5V 500mA	170×160×250mm	6kg
M50-YP303E	0~30V 0~3A	12V 500mA	5V 500mA	170×160×250mm	6kg
M50-YP305E	0~30V 0~5A	12V 500mA	5V 500mA	170×160×250mm	7kg



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# M50 SERIES PROGRAMMABLE DC POWER SUPPLY

## M50-TP TRIPLE-OUTPUTS PROGRAMMABLE DC POWER SUPPLY

### Features

- .Two adjustable outputs and one fixed output
- .Output off function
- .LED digit display and setting
- .Standard interface USB
- .Constant voltage and constant current
- .Aluminium alloy panel

### Specifications

- .Line regulation: CV  $1 \times 10^{-4} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$   
Fixed output 10mV
- .Load regulation: CV  $1 \times 10^{-4} + 4\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$   
Fixed output 10mV
- .Ripple & noise: CV 3mVrms CC 3mArms  
Fixed output 10mV
- .Fixed output accuracy: 2.5%
- .Display accuracy: Voltmeter  $\pm (0.2\% \text{Rdg} + 2\text{digits})$   
Ammeter  $\pm (1.0\% \text{Rdg} + 2\text{digits})$
- .Input voltage: 110~127VAC  $\pm 10\%$  60Hz, 220~240  $\pm 10\%$  50Hz  
Switchable



M50-TP305E

Model	Voltage	Current	Dimensions(W × H × D)	Weight
M50-TP202E	0~20V × 2 5V	0~2A × 2 3A	260 × 160 × 340mm	10kg
M50-TP303E	0~30V × 2 5V	0~3A × 2 3A	260 × 160 × 340mm	10kg
M50-TP305E	0~30V × 2 5V	0~5A × 2 3A	260 × 160 × 340mm	12kg



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# PROGRAMMABLE DC POWER SUPPLY

## M5000 SERIES



### Features

- . 4.3" TFT color display, WVGA (480\*272)
- . Graphical user menu
- . Two independent channels 0~30V/0~3,0~5A
- . Fixed voltage output 2.5V,3.3V,5V/1A
- . High output resolution 1mV/1mA
- . Low ripple noise
- . Ove voltage, over current and over heat protection
- . Up to 10 preset output state
- . Infinite output data record
- . USB host and device interface



M5005

Technical Data			M5003	M5005
Output	Voltage		CH1&CH2: 0~30V CH3: 2.5V/3.3V/5V	CH1&CH2: 0~30V CH3: 2.5V/3.3V/5V
	Current		CH1&CH2: 0~3A×2 CH3: 0~3A	CH1&CH2: 0~5A×2 CH3: 0~3A
CV mode	Regulation	source	≤0.01%+2mV	
		load	≤0.01%+2mV	
	Ripple & noise		≤1.0mVrms/350 μVrms (5Hz~1MHz)	
	Response time		≤50 μs(50% load change & min. load 0.5A)	
	Order processing time		<100ms	
	Output range		0 to set voltage continuously adjustable	
CC mode	Regulation	source	≤0.01%+250 μA	
		load	≤0.01%+250 μA	
	Ripple current		≤2mArms	
	Output range		0 to set voltage continuously adjustable	
Trace mode	Parallel	source regulation	≤0.01%+2mV	
		load regulation	≤0.01%+2mV	
	Series	source regulation	≤0.01%+3mV	
		load regulation	≤300mV	
Tracking error		≤0.5%+100mV(with load +300mV)		
Measurement	Display	voltage full range	5 digits	
		current full range	4 digits	
	Programming resolution	voltage	1mV	
		current	1mA	
	Read back resolution	voltage	0.1mV	
		current	0.1mA	
	Display resolution	voltage	1mV	
		current	1mA	
	Programming accuracy (25±5°C)	voltage	±(0.05%+10mV)	
		current	±(0.2%+10mA)	
Reading accuracy (25±5°C)	voltage	±(0.05%+5mV)		
	current	±(0.15%+5mA)		
Voltage programming time	CH1	UP: FL<50ms,NL<30ms	DOWN: FL<45ms,NL<400ms	
	CH2	UP: FL<50ms,NL<30ms	DOWN: FL<45ms,NL<400ms	
	CH3	UP: FL<15ms,NL<13ms	DOWN: FL<20ms,NL<100ms	

# PROGRAMMABLE DC POWER SUPPLY

Technical Data		M5003	M5005	
Temperature coefficient per°C	CH1	voltage full range	0.01%+5mV	
		current full range	0.01%+2mA	
	CH2	voltage	0.01%+5mV	
		current	0.01%+2mA	
	CH3	voltage	0.01%+2mV	
		current	0.01%+2mA	
Channel 3	output voltage	2.5V/3.3V/5V±8%		
	output current	0~3A		
	Regulation	source	≤0.01%+3mV	
		load	≤0.01%+3mV	
	Ripple & noise	≤1.0mVrms (5Hz~1MHz)		
Interface	USB Host & Device			
Power Source	AC 100V~240V, 50Hz /60Hz			
Weight	8kg		9.5kg	
Dimension (W×H×D)	260mm×270mm×300mm			

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# PROGRAMMABLE SWITCHING POWER SUPPLY

## M10-NSS SERIES



### Features

- .750W power output
- .Constant voltage and constant current
- .More units parallel operation
- .Remote programmable via USB to computer
- .10 programmable sets of voltage and current
- .Protection voltage and current settable.
- .Rotary encoder knob with definitive action of fine and coarse tuning
- .USB charger 5V/2A



M10-NSS3025

### Specifications

- .Line regulation: CV  $1 \times 10^{-4} + 2\text{mV}$  CC  $1 \times 10^{-4} + 1\text{mA}$
- .Load regulation : CV  $1 \times 10^{-4} + 4\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$  ( $I < 10\text{A}$ )
- .Ripple & Noise (RMS): CV  $2 \times 10^{-4} + 4\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$  ( $I \geq 10\text{A}$ )
- .Switching frequency: 60kHz
- .Display accuracy: Voltmeter  $\pm(0.2\% \text{Rdg} + 2\text{digits})$
- .Input voltage: Ammeter  $\pm(0.2\% \text{Rdg} + 5\text{digits})$
- .Full load input current: 110  $\pm$  20% VAC, 220  $\pm$  20% VAC, 50/60Hz Switchable
- .Efficiency: 80%
- .Protections: Over voltage, over current, over heat
- .Tracking over voltage protection: set voltage +1.5V
- .Tracking over current protection: set current +1.5A
- .USB output: 5V/2A
- .Dimensions: 100(W)  $\times$  160(H)  $\times$  320(D)mm
- .Weight: 3kg

Model	Output Voltage	Output Current
M10-NSS3025	0~30V	0~25A
M10-NSS6012	0~60V	0~12.5A



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# SWITCHING POWER SUPPLY

## M10-MSS SERIES



### Features

- . 450W power output
- . Constant voltage and constant current
- . Temperature control fan and over heat protection

### Specifications

- . Line regulation: CV  $6 \times 10^{-4} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$
- . Load regulation: CV  $2 \times 10^{-3} + 5\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$
- . Ripple & noise: CV 15mVrms CC 15mA rms
- . Display accuracy: Voltmeter  $\pm (1.0\% \text{Rdg} + 2\text{digits})$   
Ammeter  $\pm (1.0\% \text{Rdg} + 2\text{digits})$
- . Input voltage: 110~127VAC  $\pm 10\%$  60Hz or 220~240  $\pm 10\%$  50Hz



M10-MSS3015

Model	Voltage	Current	Resolution	Dimensions (W×H×D)	Weight (kg)
M10-MSS3015	0~30V	0~15A	100mV/100mA	105×160×215 mm	2.2
M10-MSS6008	0~60V	0~7.5A	100mV/10mA	105×160×215 mm	2.2
M10-MSS1005	0~100V	0~4.5A	1V/10mA	105×160×215 mm	2.2

## M10-OSS 1540



### Features

- . 600W power output
- . Constant voltage and constant current
- . Temperature control fan and over heat protection



M10-OSS 1540

### Specifications

- Output voltage: 0~15V
- Output current: 0~40A
- Line regulation: CV  $2 \times 10^{-3} + 3\text{mV}$  CC  $2 \times 10^{-3} + 3\text{mA}$
- Load regulation: CV  $1 \times 10^{-3} + 5\text{mV}$  CC  $2 \times 10^{-3} + 5\text{mA}$
- Ripple & noise: CV 30mVrms CC 30mA rms
- Display accuracy: Voltmeter:  $\pm (1.0\% \text{Rdg} + 2\text{digits})$  Ammeter:  $\pm (1.0\% \text{Rdg} + 2\text{digits})$
- Input voltage: 110~127VAV  $\pm 10\%$  60Hz or 220~240VAC  $\pm 10\%$  50Hz
- Dimensions(W×H×D): 105×160×235mm
- Weight: 2.5kg

POWER SUPPLY

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## S7 SERIES LOW POWER SWITCHING POWER SUPPLY

**NEW**

### Features

- Compact design
- Double Insulation
- Over current protection
- Wide voltage input
- Multi role

### S7-1201 (6 VOLTAGES)



#### Specifications

- .Output voltage: 3V, 4.5V, 6V, 7.5V, 9V, 12V
- .Output current: 1.5A
- .Line regulation: 15mV
- .Load regulation: 20mV
- .Ripple & Noise: 1.5mVrms, 5mVpp
- .Output accuracy: 5%
- .Input voltage: 85~265VAC 50/60Hz
- .Dimensions: 110(W)×75(H)×140(D)mm
- .Weight: 300g



S7-1201

### S7-1501 (SYMMETRICAL VOLTAGE)



#### Specifications

- .Output voltage: ±15V
- .Output current: 1A
- .Line regulation: 5mV
- .Load regulation: 25mV
- .Ripple & Noise: 1.8mVrms, 5mVpp
- .Output accuracy: 5%
- .Input voltage: 85~265VAC 50/60Hz
- .Dimensions: 110(W)×75(H)×140(D)mm
- .Weight: 300g



S7-1501

### S7-3001 (ADJUSTABLE VOLTAGE)



#### Specifications

- .Output voltage: 0~30V
- .Output current: 1A
- .Line regulation: 15mV
- .Load regulation: 100mV
- .Ripple & Noise: 70mVrms
- .Display accuracy: ±(0.5% Rdg + 2 digital)
- .Input voltage: 85~265VAC 50/60Hz
- .Dimensions: 110(W)×75(H)×140(D)mm
- .Weight: 300g



S7-3001

### S7-1206 (2 VOLTAGES)



#### Specifications

- .Output voltage: 6V, 12V
- .Output current: 6A
- .Line regulation: 15mV
- .Load regulation: 20mV
- .Ripple & Noise: 1.5mVrms, 5mVpp
- .Output accuracy: 5%
- .Input voltage: 85~265VAC 50/60Hz
- .Dimensions: 110(W)×75(H)×140(D)mm
- .Weight: 300g



S7-1206

## T5-1501 LOW POWER SWITCHING POWER SUPPLY

NEW

### Features

- Compact design
- Double Insulation
- Over current protection
- LED meter and bargraph indicator
- Wide voltage import



T5-1501

### Specifications

.Output voltage:	0~15V
.Output current:	1.5A
.Line regulation:	10mV
.Load regulation :	200mV
.Ripple & Noise:	30mVrms
.Display accuracy:	$\pm(0.5\%+2\text{digits})$
.Input voltage:	85~265VAC 50/60Hz
.Dimensions:	115(W) $\times$ 75(H) $\times$ 90(D)mm
.Weight:	300g

POWER SUPPLY

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## M10-TSS3606



### Features

- . Max. 120V in series output
- . Max. 12A in parallel output
- . Ch1 & CH 2 selectable output
- . Ch3 0.1~5V adjustable output
- . Output off function
- . Over voltage, over current, over load and polarity reversal protection
- . 115V or 230 automatic selecting
- . Temperature control fan to reduce the working noise



M10-TSS3606

### Specifications

- .Independent output: 0~30V/0~6A      0~60V/0~3A (CH1 & CH2)
- .Series output: 0~60V/0~6A      0~120V/0~3A (CH1 & CH2)
- .Parallel output: 0~30V/0~12A      0~60V/0~6A (CH1 & CH2)
- .CH3 output: 0.1~5V/3A
- .Line regulation: CV  $1 \times 10^{-4} + 3mV$     CC  $2 \times 10^{-3} + 3mA$
- .Load regulation: CV  $1 \times 10^{-4} + 4mV$     CC  $2 \times 10^{-3} + 3mA (I \leq 6A)$   
CV  $1 \times 10^{-4} + 8mV$     CC  $2 \times 10^{-3} + 3mA (I \leq 12A)$
- .Ripple & noise: CV 5mVrms (5Hz~1MHz)  
CV 50mVp-p (20Hz~20MHz)  
CC 3mArms
- .Response time:  $\leq 100 \mu s$  (50% load, Min. load: 0.5A)
- .Voltage rise time:  $\leq 100ms$  ( $\leq 95\%$  full load)
- .Voltage fall time:  $\leq 100ms$  ( $\geq 10\%$  full load)
- .Display accuracy:  $\pm (0.5\%Rdg + 2digits)$
- .Display resolution: 100mV, 10mA
- .Input voltage: 110~127VAC  $\pm 10\%$  60Hz, 220~240  $\pm 10\%$  50Hz Switchbale
- .Dimensions(W×H×D): 250×150×310mm
- .Weight: 5.5kg

## M10-522 SERIES VARIAC



### Features

- .Input plug for input and 4mm safety socket and outlet for output
- .High efficiency and convenient use
- .Digital meter optional

### Specifications

- .Input voltage: 220(230)VAC
- .Output voltage: 0~250VAC



Optional digital meter

Model	Max. Power	Max Current	Dimensions (W × H × D)	Weight (kg)
M10-522-02	200VA	1A	115×130×125mm	2.5
M10-522-05	500VA	2A	125×145×160mm	4
M10-522-10	1000VA	4A	185×160×210mm	6
M10-522-20	2000VA	8A	185×190×210mm	8
M10-522-30	3000VA	12A	200×210×250mm	11
M10-522-50	5000VA	20A	235×250×290mm	17



M10-522-50



M10-522-05



M10-522-30

## M10-511 SERIES VARIAC



### Features

- .Input plug for input and 4mm safety socket and outlet for output
- .High efficiency and convenient use

### Specifications

- .Input Voltage: 110(115)VAC
- .Output Voltage: 0~130VAC

Model	Max. Power	Max Current	Dimensions (W × H × D)	Weight (kg)
M10-511-02	200VA	2A	125×145×160mm	4
M10-511-05	500VA	4A	185×160×210mm	6
M10-511-10	1000VA	8A	185×190×210mm	8
M10-511-20	2000VA	15.5A	200×210×250mm	11
M10-511-30	3000VA	23A	235×250×290mm	17



M10-511-02



M10-511-30



M10-511-20

## M10-530 SERIES AC POWER SUPPLY



### Features

- .Output separate, isolative safety
- .Output voltage continuously adjustable
- .High efficiency and convenient

### Specifications

- .Input voltage: 220(230)VAC
- .Output voltage: 0~250VAC

Model	Max. Power	Max Current	Dimensions (W × H × D)	Weight kg
M10-530-5	500VA	2.5A	200×120×150mm	4
M10-530-10	1000VA	4.5A	200×120×150mm	5



**M10-530-10**

## M10-540 SERIES AC POWER SUPPLY



### Features

- .Output separate, isolative safety
- .High efficiency and convenient

### Specifications

- .Input voltage: 230(220)VAC
- .Output voltage: 230(220)VAC

Model	Max. Power	Max Current	Dimensions (W × H × D)	Weight kg
M10-540-5	500VA	2.5A	160×120×200mm	6
M10-540-10	1000VA	4.5A	200×120×200mm	12



**M10-540-5**

## M10-AC250-1 AC POWER SUPPLY



### Features:

- . Digital display for output voltage and current
- . Output voltage continuously adjustable
- . Output separate, isolative safety
- . High efficiency and convenient

### Specifications

- . Input voltage: 230(220)VAC
- . Output voltage: 0~260VAC
- . Output current: Max. 5A
- . Output power: Max. 1300VA
- . Protection: Over current
- . Display accuracy: Voltmeter  $\pm(2.5\%Rdg+2digits)$   
Ammeter  $\pm(2.5\%Rdg+2digits)$
- . Dimension(W×H×D): 260×160×340 mm
- . Weight: 17kg



M10-AC250-1

## M10-AC250-2 AC POWER SUPPLY



### Features:

- . Output separate, isolative safety
- . One way for output voltage continuously adjustable
- . One way for fixed output voltage (selectable)
- . High efficiency and convenient

### Specifications

- . Input voltage: 230(220)VAC
- . Output1 voltage: 230VAC
- . Output1 current: Max. 4.35A
- . Output1 power: Max. 1000VA
- . Output2 voltage: 0~250VAC
- . Output2 current: Max. 4A
- . Output2 power: Max. 1000VA
- . Protection: Over current
- . Dimension(W×H×D): 260×160×340mm
- . Weight: 16kg



M10-AC250-2



# BENCHTOP POWER SUPPLY

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

MACHINE

ACCESSORY

## TB412



### Features

- .General control with key-locked switch
- .Protected with high sensitivity T.M.C.B. And emergency pushbutton
- .4mm safety socket for connection
- .Power supply cable with three-phase plug



TB412

### Specifications

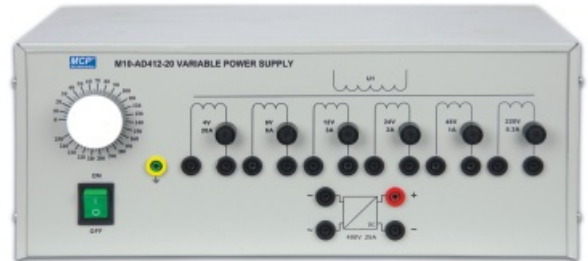
- .AC thermal-magnetic circuit breaker: 4P/16A/400V/30mA
- .Three-phase AC output: 400V/10A+N and PE
- .AC outlet: 230V/10A (2 universal single-phase sockets)
- .Dimensions: 400×170×200 mm
- .Weight: 5kg
- .Power supply: 3×400VAC/N/PE/50Hz (or other voltages upon request)

## M10-AD412-20



### Features

- .Separate from mains with insulation transformer
- .Multi ranges and multi outputs with fuse protection
- .Separate bridge rectifier for multi DC outputs
- .4mm safety socket for connection



M10-AD412-20

### Specifications

- .AC output 1: 0~4V/20A
- .AC output 2: 0~6V/6A
- .AC output 3: 0~12V/3A
- .AC output 4: 0~24V/2A
- .AC output 5: 0~48V/1A
- .AC output 6: 0~220V/0.3A
- .Bridge rectifier: 400V/25A
- .DC output: Correspond with AC output
- .Dimensions: 400×170×200 mm
- .Weight: 9.5kg

# BENCHTOP ELECTRICAL POWER SUPPLY

**TB556**



## Features

- .General control with key-locked switch
- .Protected with high sensitivity T.M.C.B. And emergency pushbutton
- .Digital voltage meters for both AC and DC output monitoring
- .4mm safety socket for connection
- .Variable three-phase AC power supply 0~430V
- .Variable rectified DC power supply 0~500V
- .400V three-phase AC output
- .230VAC outlets
- .Fixed 220 VDC output
- .Fixed regulated 6/12/24 VDC output



**TB556**

## Specifications

- .Mechanical characteristics
- .Built in structural steel and welded sheet steel, finished with epoxy paint
- .Silk screen front panel and handles on both sides

## Electrical characteristics

- .AC thermal-magnetic circuit breaker: 4P/16A/400V/30mA
- .Three-phase AC output: 400V/10A+N and PE
- .AC outlet: 230V/10A (2 universal single-phase sockets)
- .Fixed DC output: 220V/3A, rectified
- .Variable three-phase AC output: 0~430V/6A
- .Variable DC output: 0~500V/4A, three-phase rectified
- .Fixed regulated DC output: 6V/12V/24 V/2A, electronic protection

.Dimensions: 525×500×600 mm

.Weight: 50kg

.Power supply: 3×400VAC/N/PE/50Hz (or other voltages upon request)

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

MACHINE

ACCESSORY