

POWER SUPPLY



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



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F8 SERIES POWER SUPPLY

F8 SERIES **NEW**

Features

- .Plastic box for double insulation
- .Easy and safety operation for students
- .Novel design and various types for you

AC power supply

F8-A1202

Specifications

- .Output Voltage: 2V, 6.3V, 9V, 12V
- .Output Current: 2A
- .Protection: output short(buzzer), over heat
- .Input Voltage: 220~240VAC $\pm 10\%$
- .Dimensions: 240(W) \times 90(H) \times 170(D)mm
- .Weight: 2kg



F8-A1202

Symmetric DC power supply

F8-5801

Specifications

- .Output Voltage: +5V, -5V, +8V, -8V
- .Output Current: 1A
- .Load Regulation: 50mV
- .Line Regulation: 50mV
- .Ripple: 10mV
- .Protection: over current, over heat
- .Input Voltage: 220~240VAC $\pm 10\%$
- .Dimensions: 240(W) \times 90(H) \times 170(D)mm
- .Weight: 2.5kg



F8-5801

Symmetric DC power supply

F8-1501

Specifications

- .Output Voltage: $\pm 15V$
- .Output Current: 1A
- .Load Regulation: 20mV
- .Line Regulation: 20mV
- .Ripple: 10mV
- .Input Voltage: 220~240VAC $\pm 10\%$
- .Dimensions: 240(W) \times 90(H) \times 170(D)mm
- .Weight: 2.5kg



F8-1501

regulated DC power supply

F8-1201

Specifications

- .Output Voltage: 3V, 4.5V, 6V, 7.5V, 9V, 12V
- .Output Current: 1A
- .Load Regulation: 10mV
- .Line Regulation: 10mV
- .Ripple: 1mV
- .Protection: current limit
- .Input Voltage: 220~240VAC $\pm 10\%$
- .Dimensions: 240(W) \times 90(H) \times 170(D)mm
- .Weight: 2kg



F8-1201

M10-SPN SERIES



Features

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

Symmetric adjustable DC power supply

SPN15-05C

Specifications

- .Output Voltage: 0~±15V
- .Output Current: 500mA
- .Load Regulation: 20mV
- .Line Regulation: 20mV
- .Ripple: 10mV
- .Display: 3 digits LCD with back light
- .Input Voltage: 220~240VAC ±10%
- .Dimensions: 108(W)×154(H)×240(D)mm
- .Weight: 2kg



SPN15-05C



SPN15-1C

Symmetric adjustable DC power supply

SPN15-1C

Specifications

- .Output Voltage: 0~±15V
- .Output Current: 1A
- .Load Regulation: 20mV
- .Line Regulation: 20mV
- .Ripple: 10mV
- .Display: 3digits LCD with back light
- .Input Voltage: 220~240VAC ±10%
- .Dimensions: 108(W)×154(H)×240(D)mm
- .Weight: 3kg

AC & DC breadboard power supply

SPN15-05

Specifications

- .DC Output: 0~+15V/500mA
0~-15V/500mA
+5V/1A
-5V/500mA
- .AC Oupptut: 12V-6V-0-6V-12V, 300mA
- .Load Regulation: 200mV
- .Line Regulation: 200mV
- .Ripple: 20mV
- .Input Voltage: 220~240VAC ±10%
- .Dimensions: 150(W)×115(H)×200(D)
- .Weight: 3kg



SPN15-05

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

ACCESSORY

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
- .Input Voltage: 220~240VAC $\pm 10\%$
- .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 $\pm 10\%$
- .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 $\pm 10\%$
- .Dimensions: 108(W) \times 154(H) \times 240(D)mm
- .Weight: 5kg



SPN6000A

CC SERIES



CC115

CC115

Features

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

Specifications

- .Output Current: 0~1A(3 steps)
- .Max Voltage: 15V
- .Resolution: 100 μ 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 μ A(0~20mA)
100 μ A(20~100~200mA)
1mA(200mA~2A)
- .Load Regulation: 0.2%
- .Line Regulation: 0.2%
- .Display: 3 1/2digits LCD with backlight.
- .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

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

ACCESSORY

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:110 ~ 127VAC±10% / 220 ~ 240VAC±10%
- .Dimensions(W×H×D): 150 × 110 × 215mm
- .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:110 ~ 127VAC±10% / 220 ~ 240VAC±10%
- .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: 110~127VAC±10%, 220~240VAC±10%
- .Protction: 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 |

AC & DC POWER SUPPLY

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.60VA(M10-AD360-2)
max.150VA(M10-AD360-5)
- .Display Accuracy: Voltmeter $\pm(2.5\%Rdg+2digits)$
Ammeter $\pm(2.5\%Rdg+2digits)$
- .Protection: Over current
- .Input voltage: 110~127VAC $\pm 10\%$ /220~240VAC $\pm 10\%$



M10-AD360-5

| Model | Output Voltage | Output Current | Dimensions(W×D×H) | Weight (kg) |
|-------------|----------------|----------------|-------------------|-------------|
| M10-AD360-2 | 0~30V | 2A | 260×160×260mm | 10 |
| 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 continuous 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: max.6A
- .Display Accuracy: Voltmeter $\pm(1.0\%Rdg+2digits)$
Ammeter $\pm(1.0\%Rdg+2digits)$
- .Input Voltage: 220~240VAC $\pm 10\%$
- .Dimensions: 380(W)×140(H)×300(D)mm
- .Weight: 12kg



M10-AD370

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

ACCESSORY

AC & DC POWER SUPPLY

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

S303E



Features

- .Constant voltage and constant current
- .Plastic panel
- .Low cost

Specifications

- .Output voltage: 0~30V
- .Output current: 0~3A
- .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 1mV rms CC 3mA rms
- .Display accuracy: Voltmeter $\pm (0.2\% \text{Rdg} + 2\text{digits})$
Ammeter $\pm (1.0\% \text{Rdg} + 2\text{digits})$
- .Input voltage: 110~127VAC $\pm 10\%$, 220~240 $\pm 10\%$
Switchable
- .Dimensions (W×H×D): 135×170×290mm
- .Weight: 4kg



S303E

T303E



Features

- .Constant voltage and constant current
- .Plastic panel
- .Low cost

Specifications

- .Output voltage: 0~30V × 2/5V
- .Output current: 0~3A × 2/3A
- .Line regulation: CV $1 \times 10^{-4} + 3\text{mV}$ CC $2 \times 10^{-3} + 3\text{mA}$
Fixed output 60mV
- .Load regulation: CV $1 \times 10^{-4} + 4\text{mV}$ CC $2 \times 10^{-3} + 5\text{mA}$
Fixed output 80mV
- .Ripple & noise: CV 1mV rms CC 3mA rms
Fixed output 10mV
- .Display accuracy: Voltmeter $\pm (0.2\% \text{Rdg} + 2\text{digits})$
Ammeter $\pm (1.0\% \text{Rdg} + 2\text{digits})$
- .Fixed output accuracy: 2.5%
- .Input voltage: 110~127VAC $\pm 10\%$, 220~240 $\pm 10\%$
Switchable
- .Dimensions (W×H×D): 265×155×295mm
- .Weight: 7kg



T303E

MINI SINGLE OUTPUT ADJUSTABLE DC POWER SUPPLY

M10-NY & M10-MX SERIES

NEW

Features

- . Constant voltage and constant current
- . 4 digits display, 10mV/1mA resolution (M10-MX series)
- . Compact structure
- . Low ripple and noise
- . Plastic panel and new design

Specifications

- .Line regulation: CV $1 \times 10^{-4} + 3\text{mV}$ CC $2 \times 10^{-3} + 3\text{mA}$
- .Load regulation: CV $1 \times 10^{-4} + 2\text{mV}$ CC $2 \times 10^{-3} + 3\text{mA}$
- .Ripple & noise: CV 0.5mV rms CC 5mA rms
- .Display accuracy: Voltmeter $\pm (0.2\% \text{Rdg} + 2\text{digits})$
Ammeter $\pm (1.0\% \text{Rdg} + 2\text{digits})$
- .Input voltage: 110~127VAC $\pm 10\%$, 220~240 $\pm 10\%$ Switchable

| Model | Voltage | Current | Display | Resolution | Dimensions (W×H×D) | Weight (kg) |
|-----------|---------|---------|--------------|------------|--------------------|-------------|
| M10-NY183 | 0~18V | 0~3A | 3 digits LED | 100mV/10mA | 102×160×245 mm | 3.2 |
| M10-NY185 | 0~18V | 0~5A | 3 digits LED | 100mV/10mA | 102×160×245 mm | 3.5 |
| M10-NY302 | 0~30V | 0~2A | 3 digits LED | 100mV/10mA | 102×160×245 mm | 3.2 |
| M10-NY304 | 0~30V | 0~4A | 3 digits LED | 100mV/10mA | 102×160×245 mm | 3.8 |
| M10-MX302 | 0~30V | 0~2A | 4 digits LED | 10mV/1mA | 102×160×245 mm | 3.2 |
| M10-MX304 | 0~30V | 0~4A | 4 digits LED | 10mV/1mA | 102×160×245 mm | 3.8 |



M10-NY304



M10-MX304

SINGLE OUTPUT ADJUSTABLE DC POWER SUPPLY

M10-QS SERIES



NEW

Features

- . 16 hours continuously output with full load
- . Over voltage protection
- . 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 $1 \times 10^{-4} + 3\text{mV}$ 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 1mV rms CC 3mA rms
- .Display accuracy: $\pm 0.4\% \text{Rdg} + 1 \text{digits}$
- .Input voltage: 110~127VAC $\pm 10\%$, 220~240 $\pm 10\%$ Switchable

| Model | Voltage | Current | Over voltage protection | Dimensions (W×H×D) | Weight (kg) |
|------------|---------|---------|-------------------------|--------------------|-------------|
| M10-QS302 | 0~30V | 0~2A | | 130×165×320 mm | 5 |
| M10-QS303 | 0~30V | 0~3A | | 130×165×320 mm | 5 |
| M10-QS305 | 0~30V | 0~5A | | 130×165×320 mm | 6 |
| M10-QS3010 | 0~30V | 0~10A | | 250×135×300 mm | 9 |
| M10-QS3020 | 0~30V | 0~20A | | 250×135×300 mm | 9 |
| M10-QS603 | 0~60V | 0~3A | | 130×165×320 mm | 5 |
| M10-QS605 | 0~60V | 0~5A | | 250×135×300 mm | 11.5 |
| M10-QS6010 | 0~60V | 0~10A | | 250×135×300 mm | 15 |
| M10-QS1001 | 0~100V | 0~1A | | 130×165×320 mm | 5.5 |
| M10-QS1003 | 0~100V | 0~3A | | 130×165×320 mm | 11.5 |
| M10-QS1005 | 0~100V | 0~5A | | 250×135×300 mm | 14 |
| M10-QS2001 | 0~200V | 0~1A | | 250×135×300 mm | 7 |
| M10-QS2003 | 0~200V | 0~3A | | 250×135×300 mm | 15 |
| M10-QS3030 | 0~30V | 0~30A | ✓ | 250×135×460 mm | 18 |
| M10-QS6020 | 0~60V | 0~20A | ✓ | 250×135×460 mm | 20 |
| M10-QS2005 | 0~200V | 0~5A | ✓ | 250×135×460 mm | 18 |



M10-QS305



M10-QS3010

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

ACCESSORY

DUAL OUTPUT ADJUSTABLE DC POWER SUPPLY

M10-QD SERIES



NEW

Features

- . Output off function
- . **Dual independent adjustable DC outputs.**
- . 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 $1 \times 10^{-4} + 3\text{mV}$ 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 1mV rms CC 3mA rms
- .Display accuracy: $\pm 0.5\% \text{Rdg} + 2\text{digits}$
- .Input voltage: 110~127VAC $\pm 10\%$, 220~240 $\pm 10\%$ 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 | 250×135×300 mm | 7.8 |
| M10-QD303 | CH1 0~30V/0~3A CH2 0~30V/0~3A | CH1+CH2 0~60V/0~3A | CH1//CH2 0~30V/0~6A | 250×135×300 mm | 7.8 |
| M10-QD305 | CH1 0~30V/0~5A CH2 0~30V/0~5A | CH1+CH2 0~60V/0~5A | CH1//CH2 0~30V/0~10A | 250×135×300 mm | 7.8 |
| M10-QD3010 | CH1 0~30V/0~10A CH2 0~30V/0~10A | CH1+CH2 0~60V/0~10A | CH1//CH2 0~30V/0~20A | 250×135×460 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 | 250×135×460 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 | 250×135×460 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
- . 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 $2 \times 10^{-3} + 3\text{mA}$
- .Load regulation: CV $1 \times 10^{-4} + 4\text{mV}$ CC $2 \times 10^{-3} + 5\text{mA}$
- .Ripple & noise: CV 1mV rms CC 3mA rms
- .Display accuracy: $\pm 0.5\% \text{Rdg} + 2\text{digits}$
- .Input voltage: 110~127VAC $\pm 10\%$, 220~240 $\pm 10\%$ 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 1A/5V | CH1+CH2 0~60V/0~2A | CH1//CH2 0~30V/0~4A | 250×135×300 mm | 8.2 |
| M10-QR303 | CH1 0~30V/0~3A CH2 0~30V/0~3A CH3 1A/5V | CH1+CH2 0~60V/0~3A | CH1//CH2 0~30V/0~6A | 250×135×300 mm | 8.2 |
| M10-QR305 | CH1 0~30V/0~5A CH2 0~30V/0~5A CH3 1A/5V | CH1+CH2 0~60V/0~5A | CH1//CH2 0~30V/0~10A | 250×135×300 mm | 9 |

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

ACCESSORY

QUAD OUTPUT ADJUSTABLE DC POWER SUPPLY

M10-QP SERIES



Features

- . Output off function
- . Quad independent DC outputs
- . 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-QP305E

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 1mV rms CC 3mA rms
- .Display accuracy: $\pm 0.5\% \text{Rdg} + 2 \text{digits}$
- .Input voltage: 110~127VAC $\pm 10\%$, 220~240 $\pm 10\%$ Switchable

| Model | Independent Output | Series Output | Parallel Output | Dimensions (W×H×D) | Weight (kg) |
|------------|--------------------|---------------|-----------------|--------------------|-------------|
| M10-QP303E | CH1 0~30V/0~3A | CH1+CH2 | CH1//CH2 | 260 × 160 × 310mm | 8.5 |
| | CH2 0~30V/0~3A | 0~60V/0~3A | 0~30V/0~6A | | |
| | CH3 3~6.5V/3A | CH3 3~6.5V/3A | CH3 3~6.5V/3A | | |
| | CH4 8~15V/1A | CH4 8~15V/1A | CH4 8~15V/1A | | |
| M10-QP305E | CH1 0~30V/0~5A | CH1+CH2 | CH1//CH2 | 260 × 160 × 310mm | 9.5 |
| | CH2 0~30V/0~5A | 0~60V/0~5A | 0~30V/0~10A | | |
| | CH3 3~6.5V/3A | CH3 3~6.5V/3A | CH3 3~6.5V/3A | | |
| | CH4 8~15V/1A | CH4 8~15V/1A | CH4 8~15V/1A | | |

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 1mV rms CC 3mA rms
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 $\pm 10\%$, 220~240 $\pm 10\%$
Switchable



M30-SP305E



M30-TP305E



M30-YP305E

| 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

TEST INSTRUMENT

EDU. INSTRUMENT

METER

ACCESSORY

19 INCH ADJUSTABLE DC POWER SUPPLY

M10-TPR SERIES (TRIPLE OUTPUT)



Features

- .DC constant voltage and constant current
- .Series and parallel function
- .19-inch rack mount (3U) and benchtop
- .Output from front panel and rear panel
- .Output Enable/Disable control



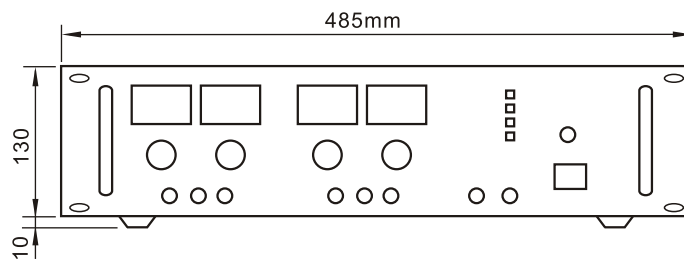
M10-TPR3005

Specifications

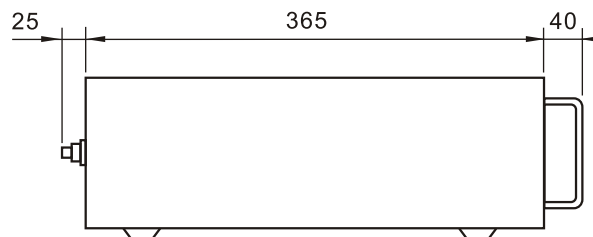
- .Line Regulation: CV $1 \times 10^{-4} + 3\text{mV}$ CC $2 \times 10^{-3} + 3\text{mA}$
Fixed output 10mV
- .Load Regulation: CV $1 \times 10^{-4} + 2\text{mV}$ CC $2 \times 10^{-3} + 3\text{mA}$ ($I \leq 3\text{A}$)
CV $1 \times 10^{-4} + 5\text{mV}$ CC $2 \times 10^{-3} + 5\text{mA}$ ($I > 3\text{A}$)
CV $2 \times 10^{-4} + 5\text{mV}$ CC $2 \times 10^{-3} + 5\text{mA}$ ($I \geq 10\text{A}$)
Fixed output 10mV
- .Ripple & Noise: CV 0.5mV rms CC 3mA rms ($I \leq 3\text{A}$)
CV 1.0mV rms CC 3mA rms ($I > 3\text{A}$)
CV 3.0mV rms CC 9mA rms ($I > 5\text{A}$)
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 $\pm 10\%$, 220~240VAC $\pm 10\%$
Switchable



| Model | Independent Output | Series Output | Parallel Output | Fixed Output | Size W x H x D | Weight kg |
|-------------|----------------------------|--------------------|--------------------|--------------|----------------|-----------|
| M10-TPR3003 | 0 ~ 30V x 2 0 ~ 3A x 2 | 0 ~ 60V 0 ~ 3A | 0 ~ 30V 0 ~ 6A | 5V 3A | 19" 3U | 14.5 |
| M10-TPR3005 | 0 ~ 30V x 2 0 ~ 5A x 2 | 0 ~ 60V 0 ~ 5A | 0 ~ 30V 0 ~ 10A | 5V 3A | 19" 3U | 16 |
| M10-TPR3010 | 0 ~ 30V x 2 0 ~ 10A x 2 | 0 ~ 60V 0 ~ 10A | 0 ~ 30V 0 ~ 20A | 5V 3A | 19" 3U | 24.5 |



19" 3U



PROGRAMMABLE DC POWER SUPPLY

M10-OPP SERIES

Features

- .Digital programmable operation and 4 digits blue LED display
- .5 groups setting memory
- .High resolution 10mV, 1mV programmable interface
- .High stability, low drift, low ripple
- .OV, OC, OT protection
- .Software calibration
- .USB interface
- . Intelligent fan control

Specifications

- .Line Regulation: $CV \leq 1 \times 10^{-4} + 3mV, CC \leq 1 \times 10^{-4} + 3mA$
- .Load Regulation: $CV \leq 3 \times 10^{-4} + 5mV, CC \leq 1 \times 10^{-3} + 2mA$
- .Ripple & Noise: $CV \leq 1.0mV \text{ rms}, CC \leq 1.0mA \text{ rms}$
- .Resolution: Set value resolution: CV 10mV, CC 1mA
Measuring value resolution: CV 10mV, CC 1mA
(during a year, $25^{\circ}C \pm 5^{\circ}C$)
- .Response Time: $\leq 3ms$
- .Display Accuracy: $CV \leq 0.1\%Rdg + 2digits, CC \leq 0.1\%Rdg + 5digits$
- .Input Voltage: 110~127VAC $\pm 10\%/60Hz$, 220~240VAC $\pm 10\%/50Hz$ Switchable
- .Dimensions: 110(W) \times 160(H) \times 260(D)mm



M10-OPP3201

| Model | Output Voltage | Output Current | Protection Voltage | Weight(kg) |
|-------------|----------------|----------------|--------------------|------------|
| M10-OPP3201 | 0 ~ 32V | 0 ~ 1A | 0 ~ 33V | 7.7 |
| M10-OPP3203 | 0 ~ 32V | 0 ~ 3A | 0 ~ 33V | 8.0 |
| M10-OPP3205 | 0 ~ 32V | 0 ~ 5A | 0 ~ 33V | 8.3 |

M10-OPP300 HIGH VOLTAGE PROGRAMMABLE DC POWER SUPPLY

Features

- .High voltage 300V
- .Digital programmable operation of constant voltage and current
- .Double 4 digits blue LED display
- .High resolution 10mV, 1mA
- .High stability, low drift, low ripple
- .10 groups setting memory
- .Intelligent fan control, low noise
- .Over voltage, over current, over temperature protection
- .Standard interface: USB

Specifications

- .Output voltage: 0~300V
- .Output current: 0~400mA
- .Over voltage protection range: 0~310V
- .Line Regulation: $CV \leq 1 \times 10^{-3} + 30mV, CC \leq 1 \times 10^{-3} + 1mA$
- .Load Regulation: $CV \leq 1 \times 10^{-3} + 0.2V, CC \leq 2 \times 10^{-3} + 0.2mA$
- .Ripple & Noise: $CV \leq 50mV \text{ rms}, CC \leq 0.5mA \text{ rms}$
- .Resolution: Set value resolution: CV 0.1V, CC 0.1mA
Measuring value resolution: CV 0.1V, CC 0.1mA
- .Response Time: $\leq 50ms$
- .Display Accuracy: $CV \leq 0.2\%Rdg + 2digits, CC \leq 0.2\%Rdg + 2digits$
(during a year, $25^{\circ}C \pm 5^{\circ}C$)
- .Input Voltage: 110~127VAC $\pm 10\%/60Hz$, 220~240VAC $\pm 10\%/50Hz$ Switchable
- .Dimensions: 110(W) \times 160(H) \times 260(D)mm
- .Weight: 8.0kg



M10-OPP300

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

ACCESSORY

PROGRAMMABLE DC POWER SUPPLY

M10-MPD & MPP SERIES



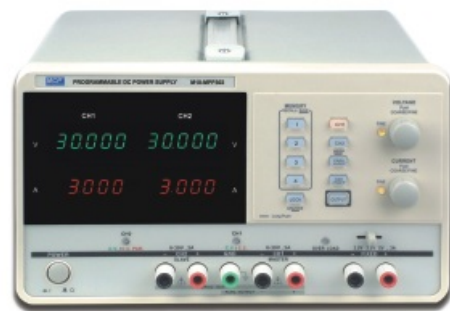
Features

.Using MCU technology to improve reliability and accuracy

- .10mV and 10mA resolution (M10-MPD series)
- .1mV and 1mA resolution (M10-MPP series)
- .4 groups setting memory
- .Three fixed voltage selection (2.5V/3.3V/5V, 3A)
- .Over current protection
- .High stability, low drift, low ripple
- .Key lock and output off function
- .intelligent fan control
- .Optional USB interface for M10-MPD303 and standard USB interface for M10-MPP303



M10-MPD305



M10-MPP303

Specifications

- .Line regulation: $CV \leq 1 \times 10^{-4} + 3mV$ $CC \leq 2 \times 10^{-3} + 3mA$
Fixed: $\leq 15mV$
- .Load regulation: $CV \leq 1 \times 10^{-4} + 3mV$ ($I \leq 3A$) $CC \leq 2 \times 10^{-3} + 3mA$ ($I \leq 3A$)
 $CV \leq 2 \times 10^{-4} + 5mV$ ($I > 3A$) $CC \leq 2 \times 10^{-3} + 3mA$ ($I > 3A$)
Fixed: $\leq 15mV$
- .Ripple & noise: $CV \leq 1.0mV_{rms}$ ($I \leq 3A$) $CC \leq 3mA_{rms}$ ($I \leq 3A$)
 $CV \leq 2.0mV_{rms}$ ($I > 3A$) $CC \leq 6mA_{rms}$ ($I > 3A$)
Fixed: $\leq 2mV_{rms}$
- .Response time: $\leq 100 \mu s$ (50% load, Min current: 0.5A)
- .Display resolution: 10mV (0~9.99V)/10mA (M10-MPD seires)
100mV (10~30V)/10mA (M10-MPD seires)
1mV/1mA (M10-MPP303)
- .Display accuracy: Voltmeter $\pm(0.2\%Rdg+3digits)$ (0~9.99V)
 $\pm(0.5\%Rdg+2digits)$ (10~30V)
Ammeter $\pm(0.5\%Rdg+3digits)$
- .Input voltage: 110~127VAC $\pm 10\%$, 220~240VAC $\pm 10\%$, Switchable
- .Dimensions(W×H×D): 250×150×310mm

| Model | Output Voltage | Output Current | Fixed output | Weight(kg) |
|------------|----------------|----------------|------------------|------------|
| M10-MPD303 | 0 ~ 30V × 2 | 0 ~ 3A | 2.5V/3.3V/5V, 3A | 7.5 |
| M10-MPD305 | 0 ~ 30V × 2 | 0 ~ 5A | 2.5V/3.3V/5V, 3A | 10 |
| M10-MPP303 | 0 ~ 30V × 2 | 0 ~ 3A | 2.5V/3.3V/5V, 3A | 7.5 |

SWITCHING POWER SUPPLY

M10-LSS SERIES



Features

- .Constant voltage and constant current operation
- .Two LED digital panel meters
- .Efficiency up to 98%
- .High power density, small and light
- .Voltage and current control by 10-turn potentiometer, resolution 0.03%
- .Protected against all overload and short circuit conditions
- .Isolated analog and digital programming interface option



M10-LSS3010

Specifications

- .Line Regulation: CV 10mV CC 4mA
- .Load Regulation: CV 3mV CC 3mA
- .Ripple & Noise: CV 3mV rms, 40mVp-p(20Hz~20MHz)
CC 3mA rms
- .Display Accuracy: Voltmeter $\pm(0.2\%Rdg+2digits)$
Ammeter $\pm(0.2\%Rdg+5digits)$
- .Input Voltage: 110~127VAC $\pm 10\%$, 220~240VAC $\pm 10\%$ Switchable
- .Dimensions: 230(W) \times 90(H) \times 260(D)mm
- .Weight: 2.2kg

| Model | Output Voltage | Output Current |
|-------------|----------------|----------------|
| M10-LSS3010 | 0-30V | 0-10A |
| M10-LSS6005 | 0-60V | 0-5A |
| M10-LSS1003 | 0-100V | 0-3A |

M10-MSS SERIES



Features

- .Constant voltage and constant current operation
- .Two LED digital panel meters
- .Efficiency up to 90%
- .High power density, small and light
- .19-inch rack mount(3U) and benchtop
- .Voltage and current control by 10-turn potentiometer, resolution 0.03%
- .Protected against all overload and short circuit conditions
- .Silent operation with temperature controlled fan
- .Isolated analog and digital programming interface option



M10-MSS6050

Specifications

- .Line Regulation: CV 500mV CC 500mA
- .Load Regulation: CV 5% CC 2%(M10-MSS30100)
CV 2.5% CC 2%(M10-MSS6050)
CV 2% CC 2%(M10-MSS10030)
- .Ripple & Noise: CV 0.5% V_{max} (20Hz~20MHz)
CC 0.5% I_{max}
- .Display Accuracy: Voltmeter $\pm(1\%Rdg+2digits)$
Ammeter $\pm(1\%Rdg+5digits)$
- .Input Voltage: 110~127VAC $\pm 10\%$, 220~240VAC $\pm 10\%$ Switchable
- .Dimensions: 19" 3U
- .Weight: 12.5kg

| Model | Output Voltage | Output Current |
|--------------|----------------|----------------|
| M10-MSS30100 | 0-30V | 0-100A |
| M10-MSS6050 | 0-60V | 0-50A |
| M10-MSS10030 | 0-100V | 0-30A |

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

ACCESSORY

M10-522 SERIES VARIAC

NEW

Features

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

Specifications

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

| Model | Max Power | Max Current | Dimensions W × H × D | Weight (kg) |
|------------|-----------|-------------|----------------------|-------------|
| M10-522-02 | 200VA | 0.8A | 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

NEW

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 | 1.6A | 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 |



M10-511-30



M10-511-05



M10-511-20

M10-530 SERIES AC POWER SUPPLY

Features

- .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-AC30-03 AC POWER SUPPLY

NEW

Features

- .Digital display for output voltage and current
- .Output voltage and current continuously adjustable
- .Over current protection
- .Isolative safety

Specifications

- .Input voltage: 230(220)VAC
- .Output voltage: 0~30VAC
- .Output current: 0~3A
- .Protection: over current
- .Display accuracy: Voltmeter $\pm(2.5\%Rdg+2digits)$
Ammeter $\pm(2.5\%Rdg+2digits)$
- .Dimension(W×H×D): 132×160×270mm
- .Weight: 5kg



M10-AC30-3

AC POWER SUPPLY

POWER SUPPLY
TEST INSTRUMENT
EDU. INSTRUMENT
METER
ACCESSORY

M10-AC250-1 AC POWER SUPPLY

NEW

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): 260×160×340mm
- .Weight: 17kg



M10-AC250-1

M10-AC250-2 AC POWER SUPPLY

NEW

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

TB556

NEW

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

ACCESSORY

BENCHTOP POWER SUPPLY

TB412

NEW

Features

- .General control with key-locked switch
- .Protected with high sensitivity TM.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)

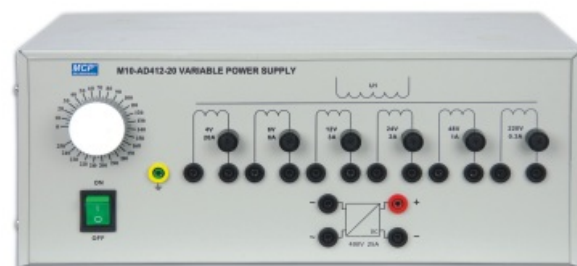
- .Dimensions: 400×170×200 mm
- .Weight: 5kg
- .Power supply: 3×400VAC/N/PE/50Hz (or other voltages upon request)

M10-AD412-20

NEW

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

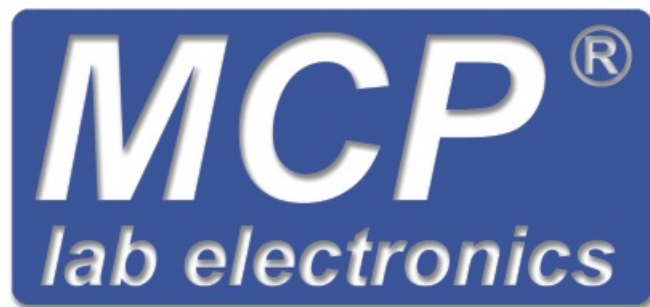


M10-412-20

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 0~220V/0.3A
- .Bridge rectifier 400V/25A
- .DC output correspond with AC output

- .Dimensions: 400×170×200 mm
- .Weight: 9.5kg



POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

ACCESSORY