

DIGITAL STORAGE & ADJUSTABLE DC POWER SUPPLY

SSP SERIES

CE NEW

Features

- . Coded voltage and current adjustment
- . Voltage and current preset function
- . CV/CC auto switching
- . 4-digits voltage and current LED display
- . Output off function
- . Low ripple and noise
- . Output locking function



SSP305

Specifications

.Load regulation:	CV≤0.01%+3mV	CC≤0.1%+10mA
.Line regulation:	CV≤0.01%+3mV	CC≤0.1%+3mA
.Ripple & noise (20Hz~20MHz):	CV≤2mVrms	CC≤3mA rms
.Voltage resolution:	10mV	
.Current resolution:	1mA	
.Display accuracy (25°C ±5°C) :	V≤±(0.5%+20mV)	A≤±(0.5%+10mA)
.Temperature coefficient:	V≤100ppm+10mV	A≤100ppm+5mA
.Response time (10% rated load):	Voltage rise:≤100ms, Voltage drop:≤100ms	
.Cooling method:	Fan	
.Working temperature:	0~40°C; relative humidity:≤85% RH	
.Storage temperature:	0~60°C; relative humidity:≤85% RH	
.Dimensions (W×H×D):	100×165×265 mm	
.Working voltage:	AC110V / 220V±10%, 50Hz/60Hz	

Model	Voltage Output	Current Output	Weight (kg)
SPP305	0~30V	0~5A	4.5
SPP303	0~30V	0~3A	3.5
SPP183	0~18V	0~3A	2.5

LSP SERIES

CE NEW

Features

- . Digital voltage and current adjustment
- . Voltage and current preset function
- . Four sets of preset voltage, current storage and recall function
- . CV/CC auto switching
- . 4-digits voltage and current LED display
- . Output off function & Output locking function
- . Low ripple and noise
- . Over voltage protection (OVP), over current protection (OCP), over heat protection



LSP305

Specifications

.Load regulation:	CV≤0.01%+3mV	CC≤0.1%+10mA
.Line regulation:	CV≤0.01%+3mV	CC≤0.1%+3mA
.Ripple & noise (20Hz~20MHz):	CV≤2mVrms	CC≤3mA rms
.Voltage resolution:	10mV	
.Current resolution:	1mA	
.Display accuracy (25°C ±5°C) :	V≤±(0.5%+20mV)	A≤±(0.5%+10mA)
.Temperature coefficient:	V≤100ppm+10mV	A≤100ppm+5mA
.Response time (10% rated load):	Voltage rise:≤100ms, Voltage drop:≤100ms	
.Cooling method:	Fan	
.Working temperature:	0~40°C; relative humidity:≤85% RH	
.Storage temperature:	0~60°C; relative humidity:≤85% RH	
.Dimensions (W×H×D):	100×165×265 mm	
.Working voltage:	AC110V / 220V±10%, 50Hz/60Hz	

Model	Voltage Output	Current Output	OVP	OCP	Weight (kg)
LSP305	0~30V	0~5A	0~30V±0.2%FS	0~5A±0.2%FS	4.5
LSP303	0~30V	0~3A	0~30V±0.2%FS	0~3A±0.2%FS	3.5
LSP183	0~18V	0~3A	0~18V±0.2%FS	0~3A±0.2%FS	2.5

DIGITAL STORAGE & ADJUSTABLE DC SWITCHING POWER SUPPLY

SKG SERIES

CE

NEW

Features

- . Switching model
- . Coded voltage and current adjustment, fine and coarse
- . Voltage and current preset function
- . CV/CC auto switching
- . 4-digits voltage and current LED display
- . Output off function
- . Output locking function
- . Compact and low cost

Specifications

.Load regulation:	CV $\leqslant 0.1\% + 5mV$	CC $\leqslant 0.2\% + 5mA$
.Line regulation:	CV $\leqslant 0.1\% + 5mV$	CC $\leqslant 0.2\% + 3mA$
.Ripple & noise (20Hz~20MHz):	CV $\leqslant 10mV_{rms}$	CC $\leqslant 5mA_{rms}$
.Voltage resolution:	10mV	
.Current resolution:	1mA	
.Display accuracy (25°C $\pm 5^\circ C$):	V $\leqslant \pm(0.5\% + 10mV)$	A $\leqslant \pm(0.5\% + 10mA)$
.Temperature coefficient:	V $\leqslant 100ppm + 10mV$	A $\leqslant 100ppm + 5mA$
.Response time (10% rated load):	Voltage rise: $\leqslant 100ms$, Voltage drop: $\leqslant 100ms$	
.Cooling method:	Fan	
.Working temperature:	0~40°C; relative humidity: $\leqslant 85\%$ RH	
.Storage temperature:	0~60°C; relative humidity: $\leqslant 85\%$ RH	
.Dimensions (W×H×D):	103×156×220 mm	
.Working voltage:	AC110V / 220V $\pm 10\%$, 50Hz/60Hz	



SKG305

Model	Voltage Output	Current Output	Weight (kg)
SKG305	0~32V	0~5A	2
SKG303	0~32V	0~3A	2

LKG SERIES

CE

NEW

Features

- . Switching model
- . Digital voltage and current adjustment, fine and coarse
- . Voltage and current preset function
- . Four sets of preset voltage, current storage and recall function
- . CV/CC auto switching
- . 4-digits voltage and current LED display
- . Output off function & Output locking function
- . Over voltage protection (OVP), over current protection (OCP), over heat protection
- . Compact and low cost

Specifications

.Load regulation:	CV $\leqslant 0.1\% + 5mV$	CC $\leqslant 0.2\% + 5mA$
.Line regulation:	CV $\leqslant 0.1\% + 5mV$	CC $\leqslant 0.2\% + 3mA$
.Ripple & noise (20Hz~20MHz):	CV $\leqslant 10mV_{rms}$	CC $\leqslant 5mA_{rms}$
.Voltage resolution:	10mV	
.Current resolution:	1mA	
.Display accuracy (25°C $\pm 5^\circ C$):	V $\leqslant \pm(0.5\% + 10mV)$	A $\leqslant \pm(0.5\% + 10mA)$
.Temperature coefficient:	V $\leqslant 100ppm + 10mV$	A $\leqslant 100ppm + 5mA$
.Response time (10% rated load):	Voltage rise: $\leqslant 100ms$, Voltage drop: $\leqslant 100ms$	
.Cooling method:	Fan	
.Working temperature:	0~40°C; relative humidity: $\leqslant 85\%$ RH	
.Storage temperature:	0~60°C; relative humidity: $\leqslant 85\%$ RH	
.Dimensions (W×H×D):	100×165×265 mm	
.Working voltage:	AC110V / 220V $\pm 10\%$, 50Hz/60Hz	



LKG305

Model	Voltage Output	Current Output	OVP	OCP	Weight (kg)
LKG305	0~32V	0~5A	0~32V $\pm 0.2\% FS$	0~5A $\pm 0.2\% FS$	2
LKG303	0~32V	0~3A	0~32V $\pm 0.2\% FS$	0~3A $\pm 0.2\% FS$	2

CC-1012M

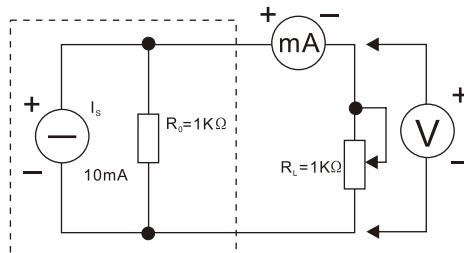
CE **NEW**

Purposes

For some experiment of electronic, a current source is essential. Below there are two samples:

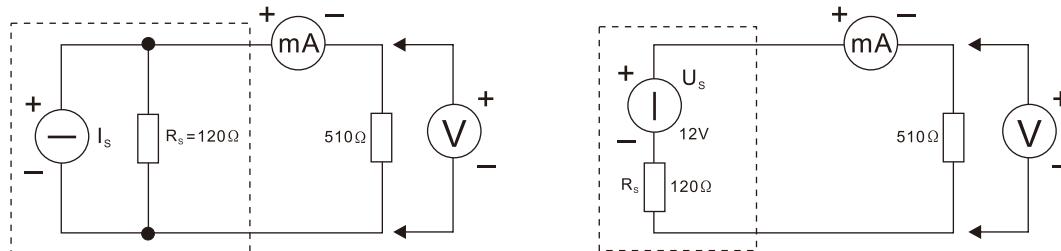
1. Measure the external characteristics of the current source

Adjust the dc current source output to 10mA, set R_o to 1K ohm and ∞ respectively, and adjust potentiometer R_L (from 0 to 1K ohm), then measure several pair the voltmeter and ammeter readings and verify the external characteristics.



2. Determine the conditions of equivalent transformation of power source

Record the voltmeter and ammeter values of the voltage source circuit. Adjust the output current I_s of the current source to make the readings of the two meters equal to the recorded values and verify the correctness of equivalent transformation conditions.



Features

- . Constant current output
- . Continuously adjustable output current
- . high stability 0.01%
- . Open circuit and over voltage protection
- . 3 1/2 digit LCD current meter with backlight
- . Compact, light and safety

Specifications

- . Output current: 0~10mA
- . Max. Voltage: 12V
- . Resolution: 10uA
- . Load regulation: 0.01%
- . Line regulation: 0.01%
- . Display: 3 1/2 digits LCD with back light
- . Display accuracy: ± 1 digit
- . Input voltage: 110V or 220VAC $\pm 10\%$, 50H or 60Hz
- . Dimension: 115(W) x 100(H) x 130(D) mm
- . Weight: 0.6kg



CC-1012M

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 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 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

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**

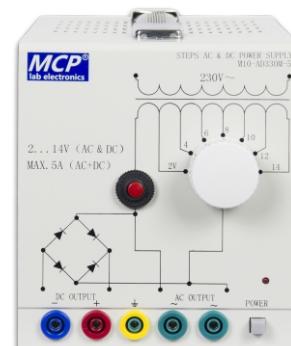
- .AC output: 6V/5A, 12V/5A
- .DC output voltage: 6V, 12V
- .DC output current: 5A
- .DC line regulation: 3%
- .DC load regulation: 5%
- .DC ripple voltage: 30mV
- .Input voltage: 220~240VAC ±10%, 50Hz
or 110~127VAC ±10%, 60Hz
- .Dimensions(W×H×D): 150 × 110 × 215 mm
- .Weight: 4.5kg

**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 ±10%, 50Hz
or 110~127VAC ±10%, 60Hz
- .Dimensions(W×H×D): 215 × 120 × 260mm
- .Weight: 6kg

**M10-AD350T-10****M10-AD330M-5****Features**

- . Both AC and DC output (full-wave rectification)
- . Working diagram on panel for easy operation
- . Output 2~14V in 7 steps
- . Over current protection
- . Transformer thermal protection

**M10-AD330M-5****Specifications**

- .Output voltage: 2V, 4V, 6V, 8V, 10V, 12V, 14V
- .Output current: Max. 5A (AC+DC)
- .Output accuracy: 10%
- .Input voltage: 220~240VAC±10%, 50Hz
or 110~127VAC±10%, 60Hz
- .Dimensions (W x H x D): 132 x 160 x 260mm
- .Weight: 3.5kg

M10-AD350M SERIES



Features

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



M10-AD350M-10

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 ±10%, 50Hz or 110~127VAC ±10%, 60Hz
- .Protection: Over current, short-circuit protection

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



M10-AD360-5

Specifications

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

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



M10-AD2210

Specifications

DC output

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

AC output

- .Display accuracy: Voltmeter $\pm(1.0\%Rdg+2digits)$
Ammeter $\pm(1.0\%Rdg+2digits)$
- .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-AD3030 SERIES CE**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 II 0~250V	I 0~30A II 0~4A

**M10-AD3030W****M10-AD3030**

M10-SS3010



Features

- . 600W AC and DC power output
- . AC and DC both constant voltage and constant current
- . AC and DC can be set separately
- . Voltage and current continuous adjust and preset
- . AC power supply sine wave output.
- Output frequency switchable 50/60Hz and line tracing.
- . Max.output voltage 30V,current 10A both AC and DC
- . Output on/off switching separate for AC and DC
- . Light and compact construction



M10-SS3010

Specifications

DC Output:

Output Voltage:	0~30VDC
Output Current:	0~10A
Voltage resolution:	0.1V
Current resolution:	0.1A
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 $2 \times 10^{-3} + 3\text{mA}$
Ripple & noise:	CV 15mVrms CC 15mA rms
Display accuracy:	Voltmeter $\pm(1.0\% \text{Rdg} + 2\text{digits})$ Ammeter $\pm(1.0\% \text{Rdg} + 2\text{digits})$

AC Output:

Output Voltage:	2~30VAC RMS
Output Current:	0~10A
Voltage resolution:	0.1V
Current resolution:	0.1A
Output frequency:	50Hz,60Hz (switchable or line tracing)
Output accuracy:	Frequency:1%
Display accuracy:	Voltmeter $\pm(1.0\% \text{Rdg} + 2\text{digits})$ Ammeter $\pm(1.0\% \text{Rdg} + 2\text{digits})$

Input Voltage: 100~127VAC or 220~240VAC, 50Hz/60Hz

Dimensions: 170(W)×160(H)×250(D)mm

Weight: 3kg

SINGLE OUTPUT ADJUSTABLE DC POWER SUPPLY

M10-QS SERIES

Features

- . 16 hours continuously output with full load
- . Over voltage protection
- . Voltage and 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 $\leqslant 5 \times 10^{-4} + 3\text{mV}$ (M10-QS30XX, M10-QS60XX) $\leqslant 1 \times 10^{-4} + 3\text{mV}$ (Other models)
CC $\leqslant 4 \times 10^{-3} + 3\text{mA}$ (M10-QS30XX, M10-QS60XX) $\leqslant 2 \times 10^{-3} + 3\text{mA}$ (Other models)
- .Load regulation: M10-QS30XX, M10-QS60XX :
CV $\leqslant 5 \times 10^{-4} + 3\text{mV}$ (output current $\leqslant 10\text{A}$) $\leqslant 1 \times 10^{-3} + 3\text{mV}$ (output current $> 10\text{A}$)
CC $\leqslant 4 \times 10^{-3} + 3\text{mA}$
Other models :
CV $\leqslant 1 \times 10^{-4} + 3\text{mV}$ (output current $\leqslant 3\text{A}$) $\leqslant 2 \times 10^{-4} + 3\text{mV}$ ($3\text{A} \leqslant \text{output current} < 10\text{A}$)
CC $\leqslant 1 \times 10^{-3} + 3\text{mA}$ (output current $\leqslant 3\text{A}$) $\leqslant 2 \times 10^{-3} + 3\text{mA}$ ($3\text{A} \leqslant \text{output current} < 10\text{A}$)
- .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	Voltage	Current	Voltage preset	Current preset	Over voltage protection	Dimensions (W×H×D)	Weight (kg)
M10-QS302	0~30V	0~2A	Yes			130×165×305 mm	5
M10-QS303	0~30V	0~3A	Yes			130×165×305 mm	5
M10-QS305	0~30V	0~5A	Yes			130×165×325 mm	6
M10-QS603	0~60V	0~3A	Yes			130×165×305 mm	5
M10-QS1001	0~100V	0~1A	Yes			130×165×305 mm	5.5
M10-QS3010	0~30V	0~10A	Yes	Yes	Yes	255×155×320 mm	9
M10-QS3020	0~30V	0~20A	Yes	Yes	Yes	255×155×320 mm	9
M10-QS605	0~60V	0~5A	Yes	Yes	Yes	255×155×320 mm	11.5
M10-QS6010	0~60V	0~10A	Yes	Yes	Yes	255×155×320 mm	15
M10-QS1003	0~100V	0~3A	Yes	Yes	Yes	255×155×320 mm	9
M10-QS1005	0~100V	0~5A	Yes	Yes	Yes	255×155×320 mm	14
M10-QS2001	0~200V	0~1A	Yes	Yes	Yes	255×155×320 mm	7
M10-QS2003	0~200V	0~3A	Yes	Yes	Yes	255×155×320 mm	15
M10-QS3030	0~30V	0~30A	Yes	Yes	Yes	255×155×480 mm	18
M10-QS6020	0~60V	0~20A	Yes	Yes	Yes	255×155×480 mm	20
M10-QS2005	0~200V	0~5A	Yes	Yes	Yes	255×155×480 mm	18



M10-QS305



M10-QS3010

DUAL OUTPUT ADJUSTABLE DC POWER SUPPLY

M10-QD SERIES



Features

- . Output off function, voltage preset 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 $\leqslant 5 \times 10^{-4} + 3\text{mV}$ (M10-QD30XX, M10-QD60XX) $\leqslant 1 \times 10^{-4} + 3\text{mV}$ (Other models)
CC $\leqslant 4 \times 10^{-3} + 3\text{mA}$ (M10-QD30XX, M10-QD60XX) $\leqslant 2 \times 10^{-3} + 3\text{mA}$ (Other models)
- . Load regulation: M10-QS30XX, M10-QS60XX :
CV $\leqslant 5 \times 10^{-4} + 3\text{mV}$ (output current $\leqslant 10\text{A}$) $\leqslant 1 \times 10^{-3} + 3\text{mV}$ (output current $> 10\text{A}$)
CC $\leqslant 4 \times 10^{-3} + 3\text{mA}$
Other models :
CV $\leqslant 1 \times 10^{-4} + 3\text{mV}$ (output current $\leqslant 3\text{A}$) $\leqslant 2 \times 10^{-4} + 3\text{mV}$ ($3\text{A} \leqslant \text{output current} < 10\text{A}$)
CC $\leqslant 1 \times 10^{-3} + 3\text{mA}$ (output current $\leqslant 3\text{A}$) $\leqslant 2 \times 10^{-3} + 3\text{mA}$ ($3\text{A} \leqslant \text{output current} < 10\text{A}$)
- . 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 & QUAD OUTPUT ADJUSTABLE DC POWER SUPPLY

M10-QR SERIES



Features

- . Output off function, voltage preset 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 $1 \times 10^{-4} + 3\text{mV}$	CC $2 \times 10^{-3} + 3\text{mA}$ (CH1, CH2)	15mV (Fixed output)
.Ripple & noise:	CV 1mVrms	CC 3mA rms (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	CH1+CH2	CH1//CH2	250×135×300 mm	8.2
	CH2 0~30V/0~2A	0~60V/0~2A	0~30V/0~4A		
	CH3 5V/3A				
M10-QR303	CH1 0~30V/0~3A	CH1+CH2	CH1//CH2	250×135×300 mm	8.2
	CH2 0~30V/0~3A	0~60V/0~3A	0~30V/0~6A		
	CH3 5V/3A				
M10-QR305	CH1 0~30V/0~5A	CH1+CH2	CH1//CH2	250×135×300 mm	9
	CH2 0~30V/0~5A	0~60V/0~5A	0~30V/0~10A		
	CH3 5V/3A				

M10-QP SERIES



Features

- . Output off function, CH1 and CH2 voltage preset 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 $1 \times 10^{-4} + 3\text{mV}$	CC $2 \times 10^{-3} + 3\text{mA}$ (CH1, CH2)	15mV (CH3, CH4)
.Ripple & noise:	CV 1mVrms	CC 3mA rms (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	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-QP305	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		

MULTI OUTPUT DC POWER SUPPLY

M10-QP500E



Features

- . Quad independent DC outputs
- . High voltage output (500V)
- . LED voltage display
- . Low ripple and noise



M10-QP500E

Specifications

.Input voltage:	100~127VAC±10%, 220~240VAC±10%
.Output voltage:	CH1 0~500V, CH2 0~50V, CH3 0~8V, CH4 0~12V
.Output current:	CH1 Max. 50mA, CH2 Max. 50mA, CH3 Max. 3A, CH4 Max. 4A
.Line regulation:	CH1 1×10^{-4} +100mV, CH2 1×10^{-3} +10mV CH3 1×10^{-3} +10mV, CH4 1×10^{-3} +10mV
.Load regulation:	CH1 1×10^{-4} +100mV, CH2 1×10^{-3} +10mV CH3 1×10^{-3} +30mV, CH4 1×10^{-3} +30mV
.Ripple and noise:	CH1 20mV rms, CH2&CH3&CH4 5mV
.Protection:	Current-limit
.Display accuracy:	±(1%Rdg+2digits)
.Dimensions(W×H×D):	260×160×340mm
.Weight:	5kg

M10-QP500A



Features

- . Quad independent DC outputs
- . High voltage output (500V)
- . Analog meter voltage display
- . Low ripple and noise



M10-QP500A

Specifications

.Input voltage:	100~127VAC±10%, 220~240VAC±10%
.Output voltage:	CH1 0~500V, CH2 0~50V, CH3 0~8V, CH4 0~12V
.Output current:	CH1 Max. 50mA, CH2 Max. 50mA, CH3 Max. 3A, CH4 Max. 4A
.Line regulation:	CH1 1×10^{-4} +100mV, CH2 1×10^{-3} +10mV CH3 1×10^{-3} +10mV, CH4 1×10^{-3} +10mV
.Load regulation:	CH1 1×10^{-4} +100mV, CH2 1×10^{-3} +10mV CH3 1×10^{-3} +30mV, CH4 1×10^{-3} +30mV
.Ripple and noise:	CH1 20mV rms, CH2&CH3&CH4 5mV
.Protection:	Current-limit
.Display accuracy:	±2.5%
.Dimensions(W×H×D):	260×160×340mm
.Weight:	5kg

MULTI OUTPUT DC POWER SUPPLY

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

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 $\pm(0.2\% \text{Rdg} + 2\text{digits})$

.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 $\pm(0.2\% \text{Rdg} + 2\text{digits})$

.Input Voltage: 110~127VAC $\pm 10\%$ 60Hz, 220~240VAC $\pm 10\%$ 50Hz, Switchable

.Dimensions: 260(W)×160(H)×340(D)mm

.Weight: 8kg



M10-QP100

.Output3:

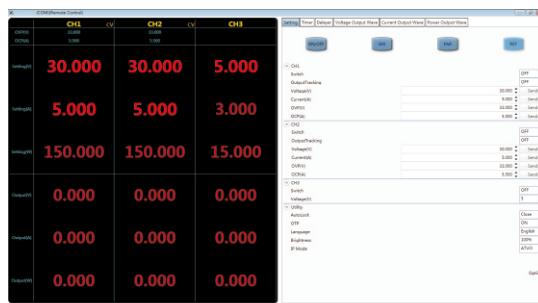
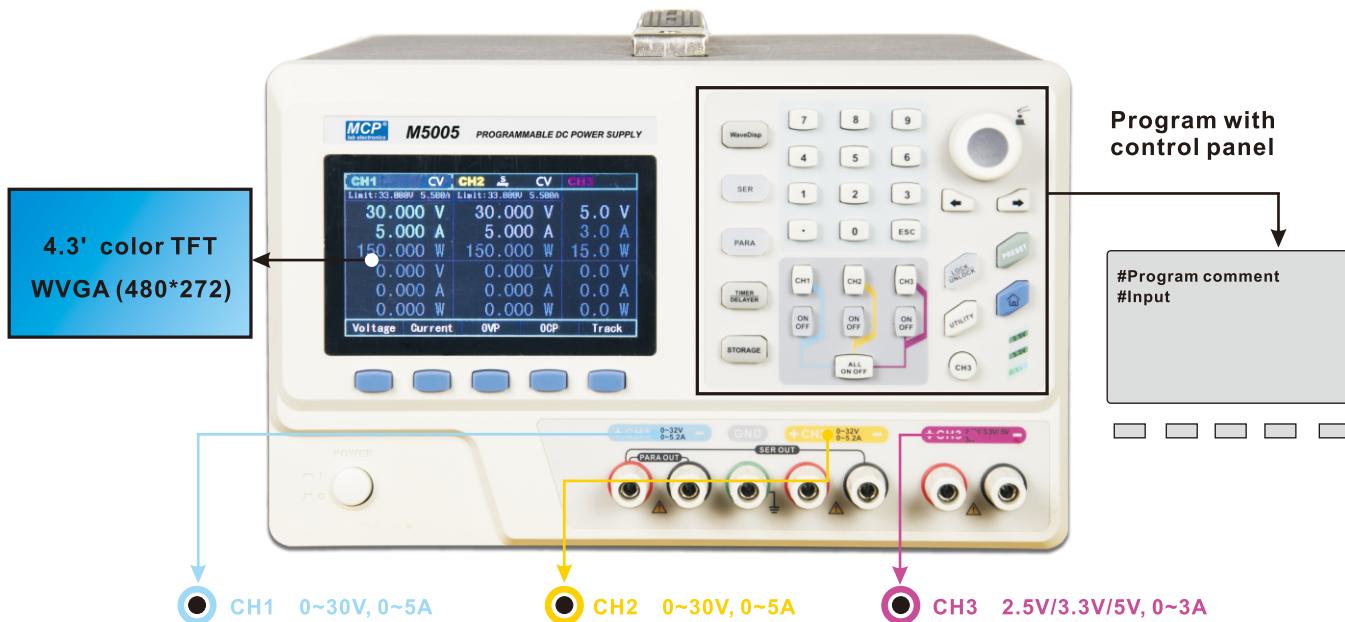
- .Output Voltage: $\pm 15V$
- .Output Current: Max. 1A
- .Line Regulation: 1%
- .Load Regulation: 1%
- .Ripple & Noise: 5mV

.Output4:

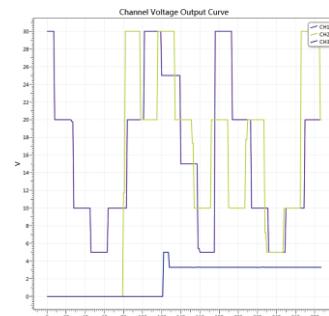
- .Output Voltage: $\pm 5V$
- .Output Current: Max. 1A
- .Line Regulation: 1%
- .Load Regulation: 1.5%
- .Ripple & Noise: 2.5mV

M5000 SERIES PROGRAMMABLE DC POWER SUPPLY

M5000 SERIES PROGRAMMABLE DC POWER SUPPLY



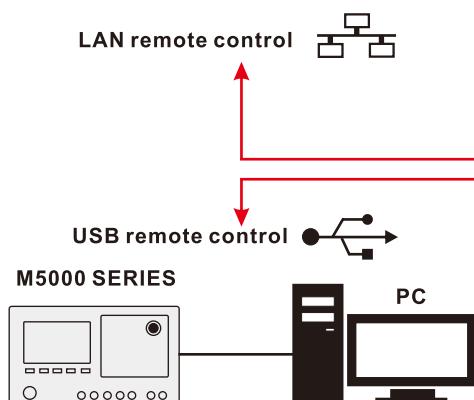
MAIN CONTROL PANEL



OUTPUT CURVE RECORD



BACK VIEW



M5000 SERIES 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/3A
- . High output resolution 1mV/1mA
- . Low ripple noise
- . Over voltage, over current and over heat protection



M5005

M5000 Series 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 load	≤0.01%+2mV ≤0.01%+2mV
	Ripple & noise		≤1.0mVrms/350 μ Vrms (5Hz~1MHz)
	Response time		≤50 μ s(50% load change & min. load 0.5A)
	Order processing time		<100ms
CC mode	Output range		0 to set voltage continuously adjustable
	Regulation	source load	≤0.01%+250 μ A ≤0.01%+250 μ A
	Ripple current		≤2mA rms
	Output range		0 to set voltage continuously adjustable
Trace mode	Parallel	source regulation load regulation	≤0.01%+2mV ≤0.01%+2mV
	Series	source regulation load regulation	≤0.01%+3mV ≤300mV
	Tracking error		≤0.5%+100mV (with load +300mV)
	Display	voltage full range current full range	5 digits 4 digits
Measurement	Programming resolution	voltage current	1mV 1mA
	Read back resolution	voltage current	0.1mV 0.1mA
	Display resolution	voltage current	1mV 1mA
	Programming accuracy (25±5°C)	voltage current	±(0.05%+10mV) ±(0.2%+10mA)
	Reading accuracy (25±5°C)	voltage current	±(0.05%+5mV) ±(0.15%+5mA)
	Voltage programming time	CH1 CH2 CH3	UP: FL<50ms,NL<30ms DOWN: FL<45ms,NL<400ms UP: FL<50ms,NL<30ms DOWN: FL<45ms,NL<400ms UP: FL<15ms,NL<13ms DOWN: FL<20ms,NL<100ms
	Temperature coefficient per °C	CH1 CH2 CH3	voltage full range current full range voltage current voltage current
	Channel 3	output voltage output current Regulation Ripple & noise	2.5V/3.3V/5V±8% 0~3A ≤0.01%+3mV ≤0.01%+3mV
Interface			USB Host & Device
Power Source			AC 100V~240V, 50Hz/60Hz
Weight		8kg	9.5kg
Dimension (W×H×D)			260mm×270mm×300mm

M30 CLASSIC 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 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 $\pm 10\%$ 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

M50 SERIES PROGRAMMABLE DC POWER SUPPLY

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.

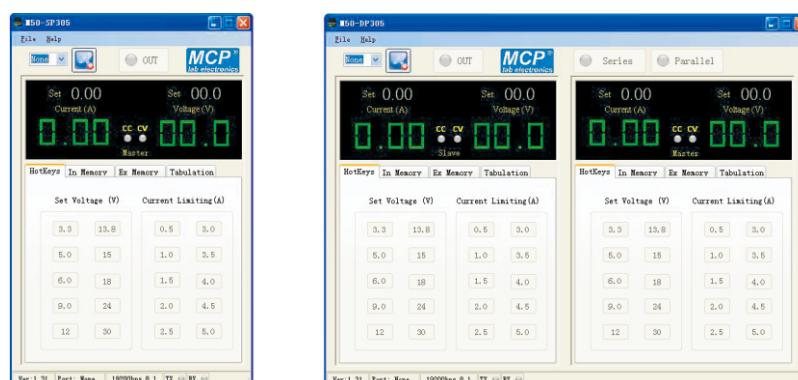


Advanced functions

Panel setting:



PC software interface:



M50 SERIES PROGRAMMABLE DC POWER SUPPLY

M50-SP SINGLE PROGRAMMABLE DC POWER SUPPLY



Features

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



Specifications

M50-SP305E

.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



PC software control

M50 SERIES PROGRAMMABLE DC POWER SUPPLY

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 3mA rms
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	12V	5V	170×160×250mm	6kg
	0~2A	500mA	500mA		
M50-YP303E	0~30V	12V	5V	170×160×250mm	6kg
	0~3A	500mA	500mA		
M50-YP305E	0~30V	12V	5V	170×160×250mm	7kg
	0~5A	500mA	500mA		



PC software control

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 for 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 3mA rms
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



PC software control