Mini Programmable DC Power Supply Series

Provide the best
measurement solution

mPP Series

mPP series(Mini Programmable DC Power Supply) is the most compact linear power supply in the world. The mPP series provide high performance and reliability. Moreover, it offers high stability for applications that need precise output control and low noise.

Features

- Provide fixed power output and able to switch voltage from 1.5V to 5.0V. (mPP-xxxxT and mPP-xxxxD series) which make convenient to support low-voltage digital circuit.

- Provide two completely separate power output. Let user to obtain higher voltage & current and positive & negative voltage applications (mPP-xxxxT series) by using series & parallel connection.

- OVP (Over voltage protection)/OCP(Over current protection) functions:
  Provide a setting protective voltage and current value for each programmable output. The mPP will auto-discontinue output and have a sound of "bi" when the output voltage or current is exceeding.

- V.Set Limit function:
  Offer the limit of the maximum voltage setting to protect user's low-voltage DUT.

- Keypad/Knob Lock function:
  Able to use lock function to keep the voltage and current setting and will keep the setting even when the mPP power on/off again.

- The PC control software can display the waveform of voltage/current function:
  It can record four data in one second which let you to view and analyze a long period voltage & current variation.

- Compact and high output digital output:
  Although it is only one-third size compared to the traditional power supply, it can output 225W which provide a better working space for engineer and production line.

- Supply high resolution V, I for measurement:
  The resolution of V (voltage) / I (current) support up to 1mV/1mA, which provides the more accurate measurement in circuit design, verification and quality test.

- Auto-Store memory:
  100 sets store memory for setting OCP, OVP, V.Set Limit, voltage and current.

- Remote controls with PC interface:
  Using USB interface to offer PC-Link function (some model using RS-232) to let you to write the control programs, save data and PC-remote. Just use easy command text format.

Application

- Development, measurement and quality control digital products.

- Electronic, Electric machinery, Communication, Biotechnology and Medical-technology digital products.

Physical Specification

DC Power programmable output range:

＊mPP-3035T

Voltage:0.01V～30V(up to 30.999V)

Current:0.01A～3.5A

＊mPP-6020T

Voltage:0.01V～60V(up to 60.999V)

Current:0.01A～2A

AC-IN

110V/220V；60Hz/50Hz

Operating Temperaturesupports series and parallel:

0℃ to 45℃

Provide the constant power output(Part of model):

Voltage could switch:

1.5V/1.8V/2.5V/3.0V/3.3V/5.0V

Output Current: ～3A

The dual programmable output model supports series and parallel:

series （Output voltage up to 30V x 2)

parallel (Output current up to 3.5A x 2)

Ripple & Noise (20Hz to 20MHz)

C.V Voltage: < 1mVrms/5mVp-p

C.C Current: < 2mArms/6mAp-p

Standard Accessories

Main unit................................x1

CD...x1

AC-Power Cord........................x1

USB Cable …..........................x1
(Part of model is RS-232 Cable)

DC output cable
(It is according to the model 1~3 set)

Optional Accessories

- USB to RS-232 Cable
- DC Output Cable Set

Series Model

Model	Programmable output		Resolution	Fixed output	Output power
★ mPP-3040S	30V,4.0A	Single	1mV , 1mA		120W
mPP-3040D	30V,4.0A	Single	1mV , 1mA	1.5V～5.0V,3A	135W
mPP-3035T	30V,3.5A	Dual	1mV , 1mA	1.5V～5.0V,3A	225W
★ mPP-6020D	60V,2.0A	Single	2mV , 1mA	1.5V～5.0V,3A	135W
mPP-6020T	60V,2.0A	Dual	2mV , 1mA	1.5V～5.0V,3A	255W
★ mPP-12010D	120V,1.0A	Single	4mV , 1mA	1.5V～5.0V,3A	135W
★ mPP-3025D	30V,2.5A	Single	10mV , 1mA	2.5V～5.0V,3A	90W
mPP-3025T	30V,2.5A	Dual	10mV , 1mA	2.5V～5.0V,3A	165W

The ★ mark are ODM/OEM model.

mPP Series Product Specification

Model	mPP-3040D		mPP-3035T	
Maximum Power	135W(MAX)		225W(MAX)	
# of Output	2		3	
Output Rating				
Voltage	0.01V～30V	1.5/1.8/2.5/3.0/3.3/5V	0.05V～30Vx2	1.5/1.8/2.5/3.0/3.3/5V
Current	0.01A～4A	3A	0.01A～3.5Ax2	3A
Max.Output Voltage	30V+0.999V	5V	30V+0.999V	5V
Resolution Programming	Voltage:1mV Current:1mA	Fixed	Voltage:1mV Current:1mA	Fixed
Regulation C.V.	Load:3mV		Load:3mV	
	Line:≤ 0.02% + 3mV		Line:≤ 0.02% + 3mV	
Regulation C.C.	Load:≤ 0.02% + 3mA		Load:≤ 0.02% + 3mA	
	Line:≤ 0.02% + 2mA		Line:≤ 0.02% + 2mA	
Programming Accuracy	Voltage: 0.05% + 10mV		Voltage: 0.05% + 10mV	
	Current: 0.2% + 10mA		Current: 0.2% + 10mA	
Ripple & Noise (20Hz to 20MHz)	Voltage:≤ 1mVrms/5mVp-p		Voltage:≤ 1mVrms/5mVp-p	
	Current:≤ 2mArms/6mAp-p		Current:≤ 2mArms/6mAp-p	
Stability(8hrs)	Voltage:≤ 0.3% + 3mV		Voltage:≤ 0.3% + 3mV	
	Current:≤ 0.2% + 2mA		Current:≤ 0.2% + 2mA	
Temperature Coefficient	Voltage:≤ 0.2% + 5mV		Voltage:≤ 0.2% + 5mV	
PER℃+/- Output Offset	Current:≤ 0.3% + 5mA		Current:≤ 0.3% + 5mA	
Protection	OVP,OCP,OTP		OVP,OCP,OTP	
Output Model	C.V , C.C		C.V , C.C	
Output On/Off Control	YES		YES	
Interface Standard	RS-232		USB	
Memory	Store/Recall Point 0～99		Store/Recall Point 0～99	
Power Source	AC 110V/220V；60Hz/50Hz		AC 110V/220V；60Hz/50Hz	
Dimension(W x D x H)	107mm x 280mm x 148mm		225mm x 310mm x 100mm	
Net Weight	5.2Kg		6.5Kg	
Warranty	1Year		1Year	

More product information

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mPP-3040D

mPP-3035T