



IT-M7721L/7722L Programmable AC Power Supply

APPLICATIONS

- Energy
- Home Appliance

- Commercial Aerospace
- IEC Conformity Test

- Industrial Electronics
- ATS

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IT-M7721L/7722L Programmable

AC Power Supply

ITECH newly-launched IT-M7721L/7722L High Performance Programmable AC Power Supply combines intelligence and flexibility, breaks through the huge defects of the traditional AC power source, reduces the size to only 1U Half-Rack, maximizes space utilization. Built-in power meter and arbitrary waveform generator make it convenient to simulate various arbitrary waveform outputs. IT-M7721L/7722L is designed with advanced technologies of programmable AC and DC power supplies, and can be widely used in multiple fields such as power energy products, home appliances, industrial electronics, avionics, military and IEC standards testing.



Features

- 1U Half-Rack compact design, increased space utilization
- AC, DC, AC + DC output modes, DC voltage offset simulation in AC + DC mode
- · Built-in AC power meter with powerful functions

- Settable output waveform start/stop phase angle
- Optional interfaces include RS232, CAN, LAN, GPIB, USB_TMC, USB_VCP, external analog, IO. Flexible and cost effective

Model	Power(AC/DC)	Voltage	Current	Frequency	Volume
IT-M7721L	300 VA/300 W	300 V	3 A	45~100 Hz	1U Half-Rack
IT-M7722L	600 VA/600 W	300 V	6 A	45~100 Hz	1U Half-Rack

APPLICATIONS

RD, verification and testing of the small-size power supply production

Communications/Telecommunications

AC power simulation

Manufacturing and process control

Battery or LCD applications

ATE testing

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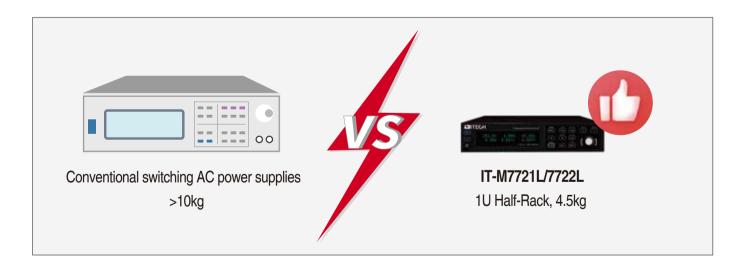






1U Half-Rack Mini size

The conventional AC power supplies are much bigger and heavier, difficult to move. The size of IT-M7721L/7722L is only 1U Half-Rack, but its max. power is up to 600VA. Its weight is 4.5kg only. With such high-power density design, the space is better utilized. So it can be portable, convenient for bench testing and good for system building.

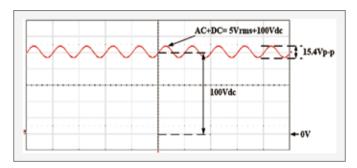


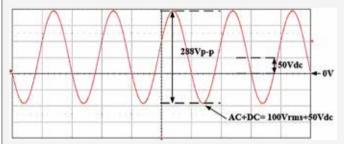
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Multiple output modes: AC, DC, AC+DC

The output modes of IT-M7721L/7722L series include AC, DC, AC+DC. It can not only provide pure AC or DC output but also AC+DC output mode which can expand application fields and test DC offset element.

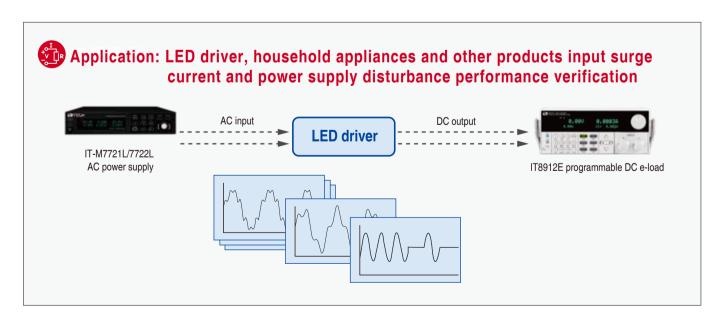




Output waveform start/stop phase angle is settable

IT-M7721L/7722L supports the initial phase and stop phase of the output waveform settable to meet different test requirements. The initial phase and stop phase are set in the range of 0-360°. By adjusting the phase angle, the user can test the rush current of the product at different positions which is widely applied to various switch current impulse tests and various rectifiers test.





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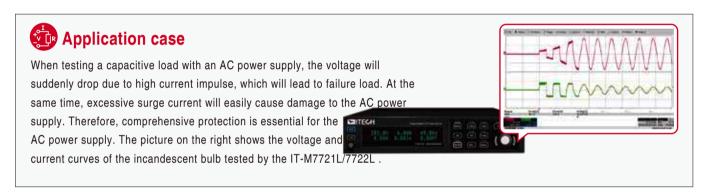
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Built-in AC power meter

IT-M7721L/7722L provides built-in AC power meter which can accurately measure and display 12 parameters on the screen, including rms voltage, rms current, output frequency, active power, power factor, etc. No need for additional power meter. So it can not only reduce test cost but also get rid of the complex connection operation.

Comprehensive protection

IT-M7721L/7722L provides comprehensive protection, including OVP rms, OVP peak, UVP rms, OCP rms, OCP peak, OCP delay, OPP, OTP and smart fan dysfunctional protection.



Panel operation and remote control

The users can operate easily on the IT-M7721L/7722L front panel; They also come with optional USB,GPIB,LAN and RS-232 interfaces, and an analog interface is also available to support remote control and ATE system quick integration. Supporting LXI and SCPI protocol, the user can remotely control the unit via web-server for convenient control and monitoring.

Pictures	Model	Interface
	IT-E1205	GPIB
	IT-E1206	USB/LAN
	IT-E1207	RS-232/CAN
	IT-E1208	Analog
	IT-E1209	USB
	IT-E251	Connection Cable



Rear panel with optional interfaces

^{*}IT-E251 is standard accessary for three phase installation and serial connection.

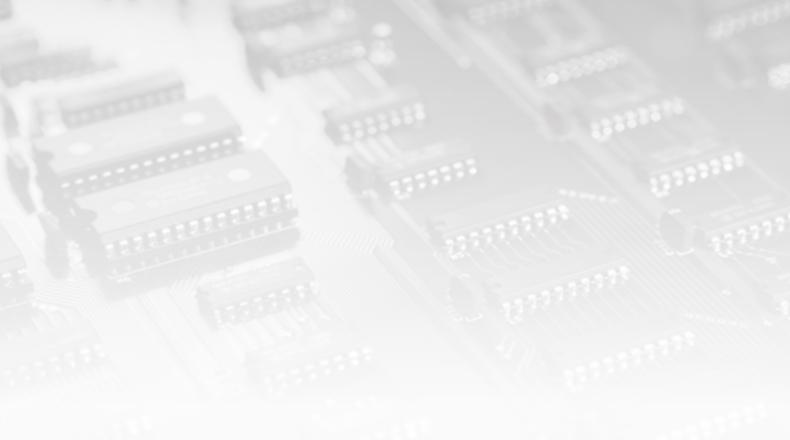
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		IT-M7721L		IT-M7722L		
			AC Input			
oltage/		100~240Vac		100-240Vac		
Phase		Single-phase		Single-phase		
Frequency		47~63Hz		47-63Hz		
Max.Current		4.3A		8.5A		
Power Factor		0.99(Typical)		0.99(Typical)		
Max. Output Power		300VA		600VA		
Max. Output Voltage		300Vac		300Vac		
Output Phase		Single-phase		Single-phase		
Current Range(Rms)		3A		6A		
Current Range(peak)		9A		18A		
Output Frequency Range		45~100Hz		45~100Hz		
Phase Angle Degree Range		0 ~ 359.9°		0 ~ 359.9°		
THD*1*3		≤0.3% at 45~100Hz		≤0.3% at 45~100Hz		
rest Factor		3		3		
ine Regulation*3		≤0.06%		≤0.06%		
oad Regulation*3		≤0.15%		≤0.15%		
	Resolution	0.1V		0.1V		
Output Voltage(Vac)	Accuracy	±(0.2%+0.2% F.S.)		±(0.2%+0.2% F.S.)		
	Resolution	0.1 Hz		0.1 Hz		
Frequency	Accuracy	±0.1%		±0.1%		
Phase Angle Degree	Resolution	0.1°		0.1°		
Range	Accuracy	0.5°		0.5°		
DC Offset Value	1.000.00	20mVdc		20mVdc		
Efficiency		75% (Typical)		80% (Typical)		
		10 % (Typical)	DC Output	CON (Typical)		
Max. output power		300W		600W		
Max. output voltage		±400V _{dc}		±400V _{dc}		
Maximum output current (Rms)		±3A		±6A		
DC voltage(Vdc) Accuracy		±(0.2%+0.2% F.S.)		±(0.2%+0.2% F.S.)		
Dynamic Response Time		2(0.2 /010.2 /01 .0.)		2(0.27010.2701.00.)		
Full load of 10~90%)		≤0.5ms		≤0.5ms		
			Meter			
	Range	0~300V		0~300V		
AC Voltage(Vac)	Resolution	0.1V		0.1V		
g-()	Accuracy	±(0.25%+0.25% F.S.)		±(0.25%+0.25% F.S.)		
	Range	0.1~3A		0.1~6A		
AC current (Rms)	Resolution	10mA		10mA		
	Accuracy	±(0.5%+0.5% F.S.)		±(0.25%+0.25% F.S.)		
	Range	0 ~ 4.25A		0∼8.5A		
AC current (Peak)	Resolution			10mA		
AC current (Peak)		10mA ±(0.4%+0.8% F.S.)		±(0.4%+0.8% F.S.)		
C voltage	Accuracy					
OC voltage	Accuracy	±(0.25%+0.25% F.S.)		±(0.25%+0.25% F.S.)		
DC current	Accuracy	±(0.25%+0.355% F.S.)		±(0.25%+0.355% F.S.)		
Frequency	Range	45 ~100Hz		45 ~100Hz		
	Resolution*4	0.1 Hz		0.1 Hz		
	Accuracy*2	±0.1%		±0.1%		
Power (S)	Resolution	100mVA		100mVA		
	Accuracy	±(0.5%+0.5% F.S.)		±(0.5%+0.5% F.S.)		
			Other			
Dimension (WxHxD)		215 x 44.45(1U) x 450 mm		215 x 44.45(1U) x 450 mm		
Weight		5KG		5KG		

^{*1} Min voltage for THD test is 100Vac.
*2 Min voltage for frequency display accuracy is 100Vac.

^{*3} Tested with pure resistive load.

^{*4} The applicable range of frequency resolution is 45~99.9Hz.





This information is subject to change without notice. For more information, please contact ITECH.

Taipei

Add: No.918, Zhongzheng Rd., Zhonghe Dist., New Taipei City

235, Taiwan

Web: www.itechate.com TEL: +886-3-6684333 E-mail: info@itechate.com

Factory I

Add: No.108, XiShanqiao Nanlu, Nanjing city, 210039, China

TEL: +86-25-52415098 Web: www.itechate.com

Factory II

Add: No.150, Yaonanlu, Meishan Cun, Nanjing city, 210039, China

TEL: +86-25-52415099 Web: www.itechate.com

Thurlby Thandar Instrument Distribution Glebe Road, Huntingdon, PE29 7DR, UK +44 (0)1480 412 451

