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TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- high - quality
- moderate prices
- excellent precision

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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 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

Your Power Testing Solution

IT-M7721L/7722L Programmable AC Power Supply

		IT-M7721L	IT-M7722L
AC Input			
Voltage		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)
AC Output			
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
Crest Factor		3	3
Line Regulation*3		≤0.06%	≤0.06%
Load Regulation*3		≤0.15%	≤0.15%
Output Voltage(Vac)	Resolution	0.1V	0.1V
	Accuracy	±(0.2%+0.2% F.S.)	±(0.2%+0.2% F.S.)
Frequency	Resolution	0.1 Hz	0.1 Hz
	Accuracy	±0.1%	±0.1%
Phase Angle Degree Range	Resolution	0.1°	0.1°
	Accuracy	0.5°	0.5°
DC Offset Value		20mVdc	20mVdc
Efficiency		75% (Typical)	80% (Typical)
DC Output			
Max. output power		300W	600W
Max. output voltage		±400Vdc	±400Vdc
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 (Full load of 10~90%)		≤0.5ms	≤0.5ms
Meter			
AC Voltage(Vac)	Range	0~300V	0~300V
	Resolution	0.1V	0.1V
	Accuracy	±(0.25%+0.25% F.S.)	±(0.25%+0.25% F.S.)
AC current (Rms)	Range	0.1~3A	0.1~6A
	Resolution	10mA	10mA
	Accuracy	±(0.5%+0.5% F.S.)	±(0.25%+0.25% F.S.)
AC current (Peak)	Range	0 ~ 4.25A	0～8.5A
	Resolution	10mA	10mA
	Accuracy	±(0.4%+0.8% F.S.)	±(0.4%+0.8% F.S.)
DC 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.