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TECHNICAL PRODUCT INFORMATION

Test & measurement instruments

- high - quality
- moderate prices
- excellent precision

Your contact:

Technical support, services, demo & rental equipment, price information
& quotes, consulting:

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Shop: www.lxinstruments.com/shop

Your Power Testing Solution

IT7800 high power programmable AC power supply

Applications

New Energy

OBC, AC/DC charging pile

Power electronics

frequency converter, UPS, AC motor

Appliance

air conditioner, microwave oven, refrigerator, washing machine

Airborne Equipment

airborne equipment, airport ground facilities

Research institute, lab, testing organizations

AC-DC power adapter, EMC test

Medical equipments

CT, MRI, life detector etc

Model	Output voltage Vac		Output Amps/Phs		Output power	Phase	Height	Front panel
	V L-N	V L-L	Arms(1Φ)	Arms(3Φ)	Pac			
IT7802-350-10U-ATE	350V	—	10A	—	2kVA	1Φ	1U	—
IT7802-350-10U	350V	—	10A	—	2kVA	1Φ	2U	touch screen
IT7802-350-30-ATE New!	350V	606V	30A	10A	2.1kVA	1Φ,3Φ reversed phase	1U	—
IT7802-350-30 New!	350V	606V	30A	10A	2.1kVA	1Φ,3Φ reversed phase	2U	touch screen
IT7803-350-30U	350V	—	30A	—	3kVA	1Φ	3U	touch screen
IT7803J-350-30U*1	350V	—	30A	—	3kVA	1Φ	3U	touch screen
IT7803-350-30-ATE New!	350V	606V	30A	10A	3kVA	1Φ,3Φ reversed phase	1U	—
IT7803-350-30 New!	350V	606V	30A	10A	3kVA	1Φ,3Φ reversed phase	2U	touch screen
IT7804-350-20U-ATE	350V	—	20A	—	4kVA	1Φ, reversed phase	1U	—
IT7804-350-20U	350V	—	20A	—	4kVA	1Φ, reversed phase	2U	touch screen
IT7805-350-30U	350V	—	30A	—	5kVA	1Φ	3U	touch screen
IT7806-350-30-ATE	350V	606V	30A	10A	6kVA	1Φ,3Φ reversed phase	1U	—
IT7806-350-30	350V	606V	30A	10A	6kVA	1Φ,3Φ reversed phase	2U	touch screen
IT7806-350-90	350V	606V	90A	30A	6kVA	1Φ,3Φ reversed phase	3U	touch screen
IT7809-350-90	350V	606V	90A	30A	9kVA	1Φ,3Φ reversed phase	3U	touch screen
IT7812-350-90	350V	606V	90A	30A	12kVA	1Φ,3Φ reversed phase	3U	touch screen
IT7815-350-90	350V	606V	90A	30A	15kVA	1Φ,3Φ reversed phase	3U	touch screen
IT7830-350-180	350V	606V	180A	60A	30kVA	1Φ,3Φ reversed phase	6U	touch screen
IT7845-350-270	350V	606V	270A	90A	45kVA	1Φ,3Φ reversed phase	15U	touch screen
IT7860-350-360	350V	606V	360A	120A	60kVA	1Φ,3Φ reversed phase	27U	touch screen
IT7875-350-450	350V	606V	450A	150A	75kVA	1Φ,3Φ reversed phase	27U	touch screen
IT7890-350-540	350V	606V	540A	180A	90kVA	1Φ,3Φ reversed phase	27U	touch screen
IT78105-350-630	350V	606V	630A	210A	105kVA	1Φ,3Φ reversed phase	27U	touch screen
IT78120-350-720	350V	606V	720A	240A	120kVA	1Φ,3Φ reversed phase	37U	touch screen
IT78135-350-810	350V	606V	810A	270A	135kVA	1Φ,3Φ reversed phase	37U	touch screen
IT78150-350-900	350V	606V	900A	300A	150kVA	1Φ,3Φ reversed phase	37U	touch screen
IT78165-350-990	350V	606V	990A	330A	165kVA	1Φ,3Φ reversed phase	37U	touch screen

*1 Single-phase AC input terminal

*For higher power, please call for availability

* The above specifications are subject to change without prior notice.

Your Power Testing Solution

IT7800 high power programmable AC power supply

IT7815-350-90			
Input parameter			
AC input	Wiring connection	3 phase 3wire + ground (PE)	
	Line voltage	RMS	(200 ~ 220) ±10%V *1/ (380 ~ 480) ±10%V
	Line current	RMS	< 34A
	PF	typ	0.98
Output parameter			
AC output	Output voltage	VLN *2	0~350V
		VLL	0 ~ 606V (3phase) / 0 ~ 700V (reverse)
	Output current	Crest Factor *3	6
		RMS	90A (1phase) / 30A (3phase/multichannel/reverse)
		Peak	270A (1phase) / 90A (3phase/multichannel/reverse)
	Output power	Per Phase	5kVA
		Max. Power	10kVA (reverse phase) / 15kVA (1phase/3phase/multichannel)
	Voltage setting		
	Range	0 ~ 350V (1phase/3phase/multichannel) / 0 ~ 700V (reverse)	
	Resolution	0.01V	
	Accuracy	< 0.1%+0.1% F.S. (16Hz ~ 500Hz) / < 0.1%+(0.2%*kHz)F.S(500.01Hz ~ 2.4kHz)	
	Current setting		
	Range	RMS	90A (1phase)/ 30A (3phase/multichannel/reverse)
	Resolution	0.01A	
	Accuracy	< 0.1% + 0.2% F.S.(16Hz ~ 150Hz) / < 0.2% + 0.3% F.S.(150.01Hz ~ 500Hz) / < 0.3%+(0.6%*kHz) F.S(500.01Hz ~ 2.4kHz)	
	Frequency		
	Set range	16 ~ 500Hz (Low*4) / 16 ~ 2.4kHz (High*4)	
	Set resolution	0.01Hz	
	Set accuracy	0.01% (16Hz ~ 500Hz) / 0.1% (500.01Hz ~ 2.4kHz)	
	harmonic waveform	50/60Hz	up to 50 orders
Phase			
Set range	0 ~ 360°		
Set resolution	0.01°		
DC output	Voltage setting		
	Range	-499 ~ 499Vdc (1phase/multichannel) / -998 ~ 998Vdc (reverse)	
	Resolution	0.01V	
	Accuracy	< 0.1%+0.1% F.S.	
	Current setting		
	Range	-30 ~ 30Adc (multichannel/reverse) / -90 ~ 90Adc (1phase)	
	Resolution	0.01A	
	Accuracy	< 0.1% + 0.2% F.S.	
	Power(max.)		
	Phase power	Per Phase	5kW
Output power	Max. Power	10kW (reverse phase) / 15kW (1phase/multichannel)	
Voltage stability	Line regulation	< 0.05% F.S.	
	Load regulation*5	< 0.05% + 0.05% F.S. (DC,16Hz ~ 500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz)	
	THD*6	< 0.5%(16Hz ~ 100Hz) / < 1%(100Hz ~ 500Hz) / < 1%+1%*kHz (500.01Hz ~ 2.4kHz)	
	Voltage ripple	RMS	< 0.4V
	Dynamic response*7	typ	200us
Measurement parameter			
Voltage RMS	Accuracy	< 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2%*kHz) F.S(500.01Hz ~ 2.4kHz)	
Current RMS	Accuracy	< 0.1% + 0.2% F.S.(DC,16Hz ~ 150Hz)/ < 0.2% + 0.3% F.S.(150.01Hz ~ 500Hz)/ < 0.3% + (0.6%*kHz) F.S(500.01Hz ~ 2.4kHz)	
Peak current	Accuracy	< 0.4% + 0.6% F.S.(16Hz ~ 500Hz) / < 0.4% + (1.2%*kHz) F.S(500.01Hz ~ 2.4kHz)	
Output power	Accuracy	< 0.4% + 0.4% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + < (0.8%*kHz) F.S(500.01Hz ~ 2.4kHz)	
Harmonic measurement	Max.	50/60Hz	up to 50 orders
Efficiency	typ*8	91%	

*1 (200 ~ 220) $\pm 10\%$, the power of 12kw and above is 60% of the rated.

*2 The output voltage will decrease along with the output frequency. The rated voltage can be output under 1.4kHz, the maximum output voltage is 250.76Vrms at 2kHz, and the maximum output voltage is 208.97Vrms at 2.4kHz.

*3 When the output frequency is 50Hz/60Hz, the maximum CF is up to 6 without exceeding the peak current; under the condition of full current and full power, the maximum CF is up to 3

*4 When loopSpeed Low is low, it can better complied DUT's characteristics; When LoopSpeed is High, the dynamic response time is faster.

*5 For models of 30kW and above, it needs the sense remote measurement mode for testing

*6 Test condition: pure resistive load, under full power condition

*7 Test under DC mode, high speed level, DUT capacity is less than 10uf

*8 Test conditions: input 380VLL/50Hz, output three phases, each phase 350Vrms/50Hz/5kW.

Others		
Maximum Working Isolation Voltage		±1000Vdc
Withstand Voltage	Input to Ground	3000Vdc/1min
	Input to Output	2250Vdc/1min
	Output to Ground	2100Vdc/1min

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