



# 17800 high power programmable AC/DC power supply

#### **APPLICATIONS**

- New Energy
- Power Electronics

- Civil Aviation
- Household Products etc.
- Research Institutes
- Medical Equipment

Your Power Testing Solution



ITECH IT7800 3U high series of programmable AC/DC power supply, with power up to 15kVA, voltage ranges up to 350V L-N. Users are able to increase output power up to 960kVA by configuring master-slave parallel. With intuitive LCD touch panel interface, users can be quickly familiar with the unit operation.

IT7800 series is built-in power meter and arbitrary waveform generator, which is able to simulate harmonics and other arbitrary waveform output. Users can choose single phase, three-phase, reverse phase, and multi-channel totally 4 output modes, with programmable output, and complete measurements, ITECH IT7800 series is designed for new energy, power electronics, research institutes etc.

#### **FEATURE**

- High power density, 3U up to 15kVA
- Master-slave parallel with current sharing technology, up to 960kVA, multiple units in parallel work as one
- Voltage up to 350V L-N
- Output frequency: 16-2400Hz, programmable slew rate setting for changing voltage and frequency
- Built-in single/3-phase AC power meter
- Multi-channel function, single unit can connect/test up to 3 DUTs\*2
- 4 output modes: AC/DC/AC+DC/DC+AC
- Choose single phase, three-phase, reverse phase output mode, to simulate 3-phase imbalance, 3-phase harmonics imbalance, 3-phase split phase test, reverse phase sequence tests for 3-phase models and etc.\*3
- Comprehensive harmonics measurement and analysis, up to 50th\*4
- Harmonics, inter-harmonics waveform synthesizer
- Programmable output impedance
- Intuitive touch screen interface
- Simulate arbitrary waveform output, support csv. file import
- High current crest factor, suitable for inrush current testing\*5
- \*1 Call for availability \*2 Not available for 3k/5kVA model
- \*4 Voltage and current harmonic analysis / Voltage harmonic simulation

- Built-in various waveforms
- List mode simulates the power supply reproduction function to realize the simulation function of instantaneous power interruption
- Provide rich trigger configuration, synchronously capture the voltage waveform of DUT, collect and simulate data.
- Output 0-360 ° start/stop phase angle can be set
- Surge/Sag function
- Relay CTRL function, to cut off the connection between instrument and DUT 6-phase, 12-phase power output
- Frequency lock and phase lock functions for applications up to 1400Vrms
- Built-in USB/CAN/LAN/Digital IO interface, optional GPIB / Analog&RS232
- Build-in IEC standard compliance testing waveforms for IEC 61000-4-11/4-13/4-14/4-28

<sup>\*3 3</sup>k/5kVA model only support single phase

<sup>\*5</sup> Maximum CF is up to 6 within peak currnt range

IT7800 high power programmable AC/DC power supply

#### **Applications**

#### New Energy

OBC, AC/DC charging pile

#### Civil aviation

airborne equipment, airport ground facilities

#### Power electronics

frequency converter, UPS, AC motor

#### Research institute, lab, testing organizations

AC-DC power adapter, EMC test

#### **Appliance**

air conditioner, microwave oven, refrigerator, washing machine

#### Medical equipments

CT, MRI, life detector etc









Renewable energy











Model	Voltage range	Current range	Power	Phase
IT7803-350-30U *2	350 V	30 A	3kVA	1Ф
IT7803J-350-30U *1	350 V	30 A	3kVA	1Ф
IT7805-350-30U *2	350 V	30 A	5kVA	1Ф
IT7806-350-90	350 V	90 A	6kVA	1Φ or 3Φ
IT7809-350-90	350 V	90 A	9kVA	1Φ or 3Φ
IT7812-350-90	350 V	90 A	12kVA	1Φ or 3Φ
IT7815-350-90	350 V	90 A	15kVA	1Φ or 3Φ
IT7830-350-180	350 V	180 A	30kVA	1Φ or 3Φ
IT7845-350-270	350 V	270 A	45kVA	1Φ or 3Φ
IT7860-350-360	350 V	360 A	60kVA	1Φ or 3Φ
IT7875-350-450	350 V	450 A	75kVA	1Φ or 3Φ
IT7890-350-540	350 V	540 A	90kVA	1Φ or 3Φ
IT78105-350-630	350 V	630 A	105kVA	1Φ or 3Φ
IT78120-350-720	350 V	720 A	120kVA	1Φ or 3Φ
IT78135-350-810	350 V	810 A	135kVA	1Φ or 3Φ
IT78150-350-900	350 V	900 A	150kVA	1Φ or 3Φ
IT78165-350-990	350 V	990 A	165kVA	1Ф or 3Ф

<sup>\*1</sup> Single-phase AC input terminal

<sup>\*2</sup> Three-phase AC input terminal, support single-phase / three-phase AC input

<sup>\*</sup>Reverse phase and phase-locking functions help to meet higher voltage testing requirements

<sup>\*</sup>For higher power, please call for availability

IT7800 high power programmable AC/DC power supply

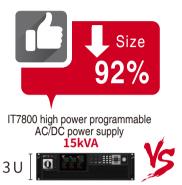
#### 3U/15kVA high power density

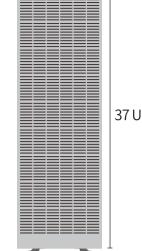
With only 3U size, ITECH IT7800 can reach both 15kVA for power and 350V L-N for voltage. Compared with conventional AC source, it saves a lot of space for users.

3U 15kVA

350V

**ATE** set up bench test





Traditional power supply 15kVA

#### Master/Slave parallel

ITECH IT7800 series can provide more power by using the master/slave parallel output function, with 64 units in paralleled, to achieve total output power max. 960kVA.

IT7800 comes with synchronous On/Off input and output signals, which ensures the synchronization of paralleling and ensures synchronous current sharing of multiple modules. After paralleling, not only all functions are retained, but there is no loss of accuracy. Make the construction of the power system faster, more flexible, and more economical, whether it is a stand-alone test or ATE system, it can be easily reached.



#### Application: Electrical performance test of industrial frequency converter

- · Background description: Inverter is a converter that converts fixed voltage and fixed frequency AC current into adjustable voltage and frequency alternating current, to achieve the purpose of speed regulation. It is widely used in fans, water pumps, AC motors and large-scale driving equipment. The range is from several hundred watts to several hundred kilowatts. The inverter test includes input electrical parameters, output electrical parameters, protection functions and conversion efficiency.
- · Solution: IT7800 can meet the test of high-power inverters up to 960kVA, and can simulate input three-phase imbalance, input voltage sag and other disturbance waveforms to verify the input stability of the inverter.

IT7800 high power programmable AC/DC power supply

#### Intuitive touch panel design

The IT7800 series is equipped with a brand-new touch screen design, a simple and intuitive GUI interface, and the keyboard knob design allows users to perform tests directly and quickly. Users can choose different interface display styles, customize the parameter types and display positions of the page, and the user-friendly settings can meet various measurement needs in the test.

The screen can display real-time voltage and current curves. up to 6 waveforms, users can perform instantaneous analysis without an oscilloscope, and save them.





\* Stay tuned!

#### Application: testing inductive, capacitive or resistive products

- · When testing inductive, capacitive or resistive products, there are certain leading or lagging characteristics of voltage and current.
- · Using IT7800 series can not only display real-time data, but also select the desired waveform on the screen for visual observation. And through shortcut keys, save the picture to the storage disk of the peripheral device. It is convenient to perform secondary analysis on data and waveforms, making it easier and more effective to use.

#### Application: UPS test

- · Test standard: YD-T 1095-2018
- · Test equipment: IT7800 series high-power programmable AC /DC power supply, IT8600 series AC and DC electronic load
- · Test content: Adjust the AC input voltage and change it within the range specified by the standard to see if the UPS meets the indicators related to the input voltage change.

#### IT7800 series high-power IT8600 series AC and DC programmable AC/DC power supply UPS electronic load

#### Multi-channel function

The multi-channel function of the IT7800 series allows users to test 3 independent DUT at the same time

without adding additional hardware configuration. In the traditional solution, 3 tests for the DUT, the user needs to configure 3 AC power supplies; and one IT7800 device can meet multi-channel testing requirements. For example, IT7815-350-90 rated power is 15kVA, can provide single-phase/three-phase 15kVA DUT test, can also meet up to 3\* single-phase DUT test, one machine with multiple functions, fully improves the equipment utilization.

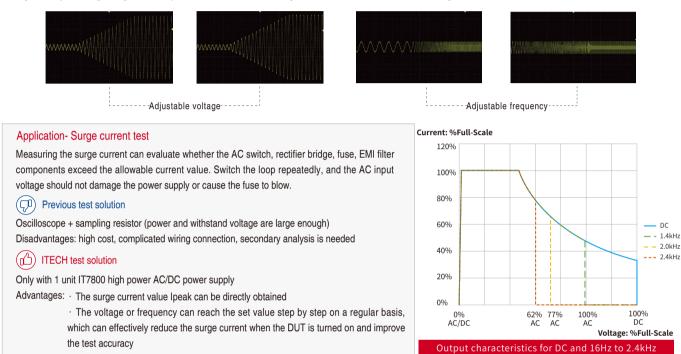


multi-channel

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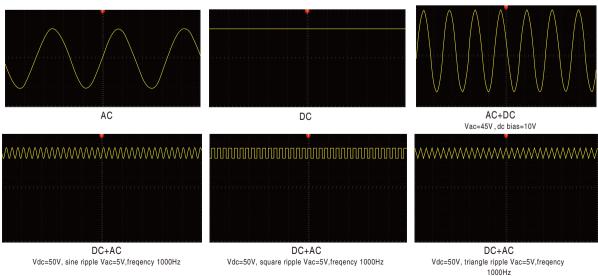
#### The output frequency can reach 2.4kHZ, the voltage or frequency output variation rate is adjustable

The output frequency of IT7800 series is adjustable between 16-2400Hz, allowing users to set the voltage or frequency output variation rate by themselves, so that the voltage or frequency gradually reaches the set value in a regular manner. Therefore, it can verify the operating range of the product more accurately, and can also reduce the surge current when the DUT is turned on.



#### AC DC AC+DC DC+AC

The IT7800 series has four output modes: AC, DC, AC+DC, DC+AC. It not only provides pure AC/DC output, but also can use AC+DC and DC+AC output modes to realize "AC output plus DC bias" And "DC output waveform with ripple", which cover a wider range of applications.

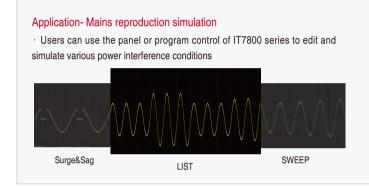


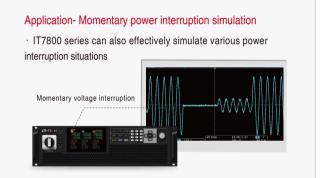
IT7800 high power programmable AC/DC power supply

#### List

Through LIST, SWEEP and Surge&Sag mode, IT7800 series can easily realize the stepwise or continuous change of output parameters. Its output voltage amplitude, frequency, phase, waveform and other parameters can also be output by controlling the internal trigger or external trigger of the instrument. Therefore, it can simulate the characteristics of instantaneous power failure, surge, and slow rise of various power supplies.

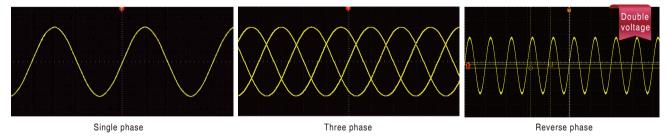






#### Single phase, three phase, reverse phase

The IT7800 series provides multiple output modes such as single-phase, three-phase and reverse phase, which can be selected by the user through the panel menu. By programming ,it can simulate three-phase unbalance, three-phase harmonic unbalance, lack of phase test, phase sequence reverse connection and other tests, which are flexible and cover more applications. At the same time, IT7800's reverse mode can also provide a high-voltage test solution. Its voltage can be increased to twice and the power remains 2/3. For example, if it is set to 350V, the actual output voltage can reach 700V after the reverse mode is selected.



#### Application-Avionic power supply simulation test, power supply characteristic parameter test

When testing inductive, capacitive or resistive products, the aircraft power supply system is an important guarantee for safe flight. The steady-state characteristics of the power supply determine whether the power supply can provide the required electrical energy under normal, abnormal and emergency steady-state conditions.

■ ISO1540: 2006

IT7800 series can simulate three-phase voltage unbalanced output, harmonic synthesis output, voltage sudden change waveform output, frequency sudden change waveform output, and meet the test requirements of ISO1540: 2006.

MIL-STD-704/GJB 5189-2003

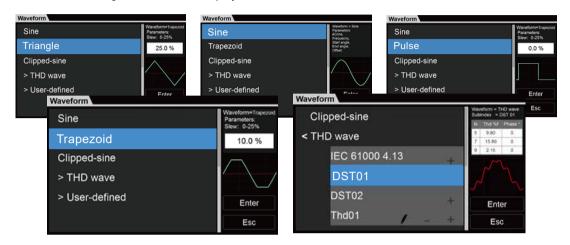
The IT7800 series can simulate the AC/DC power supply system of the aircraft to verify the steady-state characteristics, power supply transient characteristics and compatibility of electrical equipment. The flexible master-slave parallel connection can meet the increasing power test requirements of large aircraft and still keep the accuracy and performance after parallel connection.



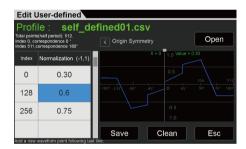
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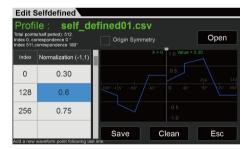
#### Build-in multiple waveforms

There are many different types of waveforms built in IT7800 series, such as triangle wave, sine wave, square wave, sawtooth wave, etc. Users can recall them through the menu and display the selected waveform on the LCD screen.

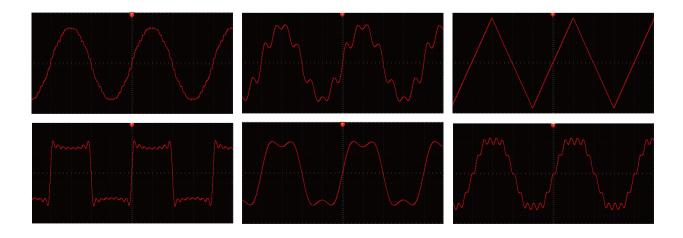


Users can also edit the waveform through the custom mode of the interface to simulate and reproduce the real power waveform at the moment that the problem occurs.





30 built-in harmonic waveforms



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#### Harmonic analysis and simulation

The harmonic analysis function of IT7800 series includes voltage harmonic measurement and current harmonic measurement. In the harmonic mode, the voltage and current harmonic distortion factor (THD) and the phase difference of the harmonic to the fundamental wave can be tested. In addition, it can measure multiple harmonics, and the results are displayed in a list, histogram or vector diagram, making the test results easy to be seen.



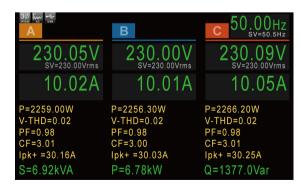
The harmonic simulation function of IT7800 series (single-phase harmonic/three-phase harmonic/three-phase harmonic unbalance) can simulate up to the 50th voltage harmonic.

# **50**th harmonic simulation



#### Built-in AC power meter

IT7800 series has built-in single-phase or three-phase AC power meter, which can measure various parameters, including voltage effective value, current effective value, output frequency, active power, power factor, etc. No additional power meter needed, it saves test costs and wiring connection time for users as well.



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#### Surge & Sag

The IT7800 series provides a surge/trap simulation function. Users can add a surge/sag to the output sine wave and simulate abnormal voltage fluctuations accordingly, so as to test the performance of the DUT under the situation.



#### Data record

IT7800 has the function of data recording. Users can observe the trend over a period of time in detail, or observe the data at a certain moment in the current trend graph by sliding the vernier caliper. Up to 6 curves can be observed. The graphic display interface is colorful, allowing users to have an oscilloscope-like experience at the same time.



#### Sweep

The Sweep function can be used to test the efficiency of the switching power supply and capture the voltage and frequency of the maximum power point. Users can set the start voltage, end voltage, step voltage, start frequency, stop frequency, step frequency and single step time, so that the power supply voltage and frequency can be changed in a step-by-step manner. After the test, the voltage and frequency of the maximum power point can be displayed.



IT7800 high power programmable AC/DC power supply

			IT7815-350-90			
			Input parameter			
	Wiring connection	3 p	shase 3wire + ground (PE)			
	Line voltage	RMS	(200~220)±10% *1/(380~480)±10%			
AC input	Line current	RMS	< 34A			
	PF	typ	0.98			
			Output parameter			
		VLN *2	0~350V			
	Output voltage	VLL	0~606V (3phase) / 0~700V (reverse)			
		Crest Factor *6	6			
	Output current	RMS	90A (1phase) / 30A (3phase/multichannel/reverse)			
	·	Peak	270A (1phase) / 90A (3phase/multichannel/reverse)			
		Per Phase	5kVA			
	Output power	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)				
	Accuracy					
C output	Dange	DMO	Current setting			
.o output	Range	RMS	90A (1phase)/ 30A (3phase/multichannel/reverse)			
	Resolution	10 40′ 0 00′ E 0 ′D0 40U 450U \ / 10 00	0.01A			
	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)			
	-	10, 500	Frequency			
	Set range	16~500Hz (Low*3) / 16~2.4kHz (High*3)				
	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		0.1°			
			Voltage setting			
	Range	-495~495Vdc (1)	phase/multichannel) / -990 ~ 990Vdc (reverse)			
	Resolution	0.01V				
		<0.1%+0.1% F.S.				
	Accuracy					
	Accuracy					
OC autaut		-30∼30Adc (r	< 0.1%+0.1% F.S. Current setting			
OC output	Range Resolution	-30 ∼30Adc (r	<0.1%+0.1% F.S.			
OC output	Range	-30 ∼ 30Adc (r	<0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90~90Adc (1phase)			
OC output	Range Resolution	-30 ∼ 30Adc (ı	< 0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90 ~ 90Adc (1phase)  0.01A < 0.3%+0.3% F.S.			
OC output	Range Resolution Accuracy		<0.1%+0.1% F.S. Current setting multichannel/reverse) / -90 ~ 90Adc (1phase) 0.01A <0.3%+0.3% F.S. Power(max.)			
OC output	Range Resolution Accuracy Phase power	-30 ∼ 30Adc (r Per Phase Max. Power	< 0.1%+0.1% F.S. Current setting multichannel/reverse) / -90 ~ 90Adc (1phase) 0.01A < 0.3%+0.3% F.S.  Power(max.)  5kW			
OC output	Range Resolution Accuracy  Phase power Output power	Per Phase	< 0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90 ~ 90Adc (1phase)  0.01A < 0.3%+0.3% F.S.  Power(max.)  5kW  10kW ( reverse phase) / 15kW (1phase/multichannel)			
OC output	Range Resolution Accuracy  Phase power Output power Line regulation	Per Phase Max. Power	<0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90 ~ 90Adc (1phase)  0.01A <0.3%+0.3% F.S.  Power(max.)  5kW  10kW (reverse phase) / 15kW (1phase/multichannel) <0.05% F.S.			
<i>,</i>	Range Resolution Accuracy  Phase power Output power Line regulation Load regulation*4	Per Phase Max. Power <0.05% + 0.05% F.S. (DC,16Hz ~	< 0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90 ~ 90Adc (1phase)  0.01A  < 0.3%+0.3% F.S.  Power(max.)  5kW  10kW ( reverse phase) / 15kW (1phase/multichannel)  < 0.05% F.S.  -500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz)			
·	Range Resolution Accuracy  Phase power Output power Line regulation Load regulation*4 THD	Per Phase  Max. Power  <0.05% + 0.05% F.S. (DC,16Hz ~ <0.5%(16Hz ~ 100Hz) / <1%(1	< 0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90 ~ 90Adc (1phase)  0.01A  < 0.3%+0.3% F.S.  Power(max.)  5kW  10kW ( reverse phase) / 15kW (1phase/multichannel)  < 0.05% F.S.  -500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz)  100Hz ~ 500Hz) / < 1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
·	Range Resolution Accuracy  Phase power Output power Line regulation Load regulation*4 THD Voltage ripple	Per Phase  Max. Power  < 0.05% + 0.05% F.S. (DC,16Hz ~ < 0.5%(16Hz ~ 100Hz) / < 1%(1  RMS	< 0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90 ~ 90Adc (1phase)  0.01A  < 0.3%+0.3% F.S.  Power(max.)  5kW  10kW ( reverse phase) / 15kW (1phase/multichannel)  < 0.05% F.S.  -500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz)  100Hz ~ 500Hz) / < 1%+(1%*kHz) (500.01Hz ~ 2.4kHz)  < 0.4V			
·	Range Resolution Accuracy  Phase power Output power Line regulation Load regulation*4 THD	Per Phase  Max. Power  < 0.05% + 0.05% F.S. (DC,16Hz ~  < 0.5%(16Hz ~ 100Hz) / < 1%(1  RMS  typ	< 0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90 ~ 90Adc (1phase)  0.01A  < 0.3%+0.3% F.S.  Power(max.)  5kW  10kW ( reverse phase) / 15kW (1phase/multichannel)  < 0.05% F.S.  -500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz)  100Hz ~ 500Hz) / < 1%+(1%*kHz) (500.01Hz ~ 2.4kHz)  < 0.4V  200us			
'oltage stability	Range Resolution Accuracy  Phase power Output power Line regulation Load regulation*4 THD Voltage ripple Dynamic response*5	Per Phase  Max. Power  < 0.05% + 0.05% F.S. (DC,16Hz ~  < 0.5%(16Hz ~ 100Hz) / < 1%(1  RMS  typ	< 0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90 ~ 90Adc (1phase)  0.01A  < 0.3%+0.3% F.S.  Power(max.)  5kW  10kW (reverse phase) / 15kW (1phase/multichannel)  < 0.05% F.S.  -500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz)  100Hz ~ 500Hz) / < 1%+(1%*kHz) (500.01Hz ~ 2.4kHz)  < 0.4V  200us  Measurement parameter			
/oltage stability	Range Resolution Accuracy  Phase power Output power Line regulation Load regulation*4 THD Voltage ripple Dynamic response*5  Accuracy	Per Phase  Max. Power  <0.05% + 0.05% F.S. (DC,16Hz ~  <0.5%(16Hz ~ 100Hz) / < 1%(1  RMS  typ  <0.1%+0.1% F.S. (DC,16Hz ~ 500Hz)	< 0.1%+0.1% F.S.  Current setting  multichannel/reverse) / -90 ~ 90Adc (1phase)  0.01A  < 0.3%+0.3% F.S.  Power(max.)  5kW  10kW (reverse phase) / 15kW (1phase/multichannel)  < 0.05% F.S.  -500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz)  100Hz ~ 500Hz) / < 1%+(1%*kHz) (500.01Hz ~ 2.4kHz)  < 0.4V  200us  Measurement parameter  Hz) / < 0.1%+(0.2%*kHz) F.S(500.01Hz ~ 2.4kHz)			
Voltage stability Voltage RMS Current RMS	Range Resolution Accuracy  Phase power Output power Line regulation Load regulation*4 THD Voltage ripple Dynamic response*5  Accuracy Accuracy	Per Phase  Max. Power  <0.05% + 0.05% F.S. (DC,16Hz ~  <0.5%(16Hz ~ 100Hz) / < 1%(1  RMS  typ  <0.1%+0.1% F.S. (DC,16Hz ~ 500H) <0.1% + 0.2% F.S.(DC,16Hz ~ 150Hz) / < 0.2%	Current setting multichannel/reverse) / -90 ~ 90Adc (1phase) 0.01A < 0.3%+0.3% F.S. Power(max.) 5kW 10kW (reverse phase) / 15kW (1phase/multichannel) < 0.05% F.S. -500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 100Hz ~ 500Hz) / < 1%+(1%*kHz) (500.01Hz ~ 2.4kHz) < 0.4V 200us Measurement parameter Hz) / < 0.1%+(0.2%*kHz) F.S(500.01Hz ~ 2.4kHz) 2% + 0.3% F.S.(150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S(500.01Hz ~ 2.4kHz) 2% + 0.3% F.S.(150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S(500.01Hz ~ 2.4kHz)			
Voltage stability Voltage RMS Current RMS Peak current	Range Resolution Accuracy  Phase power Output power Line regulation Load regulation*4 THD Voltage ripple Dynamic response*5  Accuracy Accuracy Accuracy	Per Phase  Max. Power  <0.05% + 0.05% F.S. (DC,16Hz ~  <0.5%(16Hz ~ 100Hz) / < 1%(1  RMS  typ  <0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.2% F.S.(DC,16Hz ~ 150Hz) / < 0.4% + 0.6% F.S.(DC,16Hz ~ 150Hz) / < 0.4% +	Current setting multichannel/reverse) / -90 ~ 90Adc (1phase) 0.01A < 0.3%+0.3% F.S. Power(max.) 5kW 10kW (reverse phase) / 15kW (1phase/multichannel) < 0.05% F.S. -500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 100Hz ~ 500Hz) / < 1%+(1%*kHz) (500.01Hz ~ 2.4kHz) < 0.4V 200us Measurement parameter Hz) / < 0.1%+(0.2%*kHz) F.S(500.01Hz ~ 2.4kHz) 2% + 0.3% F.S.(150.01Hz ~ 500Hz)/< 0.3% + (0.6%*kHz) F.S(500.01Hz ~ 2.4kHz) < 500Hz) / < 0.4% + (1.2%*kHz) F.S(500.01Hz ~ 2.4kHz) < 500Hz) / < 0.4% + (1.2%*kHz) F.S(500.01Hz ~ 2.4kHz)			
Voltage stability Voltage RMS Current RMS Peak current Dutput power	Range Resolution Accuracy  Phase power Output power Line regulation Load regulation*4 THD Voltage ripple Dynamic response*5  Accuracy Accuracy	Per Phase  Max. Power  <0.05% + 0.05% F.S. (DC,16Hz ~  <0.5%(16Hz ~ 100Hz) / < 1%(1  RMS  typ  <0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.2% F.S.(DC,16Hz ~ 150Hz) / < 0.4% + 0.6% F.S.(DC,16Hz ~ 150Hz) / < 0.4% +	Current setting multichannel/reverse) / -90 ~ 90Adc (1phase) 0.01A < 0.3%+0.3% F.S. Power(max.) 5kW 10kW (reverse phase) / 15kW (1phase/multichannel) < 0.05% F.S. -500Hz) / < 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 100Hz ~ 500Hz) / < 1%+(1%*kHz) (500.01Hz ~ 2.4kHz) < 0.4V 200us Measurement parameter Hz) / < 0.1%+(0.2%*kHz) F.S(500.01Hz ~ 2.4kHz) 2% + 0.3% F.S.(150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S(500.01Hz ~ 2.4kHz) 2% + 0.3% F.S.(150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S(500.01Hz ~ 2.4kHz)			

<sup>\*1 (</sup>  $200\!\sim\!220$  ) ±10%, the power of 12kw and above is 60% of the rated.

<sup>\*2</sup> 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.

 $<sup>^{\</sup>star}3$  When loopSpeed Low is low, it can better complied DUT's characteristics; When LoopSpeed is High, the dynamic response time is faster.

<sup>\*</sup> This information is subject to change without notice

<sup>\*4</sup> For models of 30kW and above, it needs the sense remote measurement mode for testing

<sup>\*5</sup> Test under DC mode, high speed level, DUT capacity is less than 10uf

<sup>\*6</sup> 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



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

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