

IT7900P High Performance Regenerative Grid Simulator













Your Power Testing Solution



The IT7900P series high-performance Regenerative grid simulator provides an all-in-one test solution that can be used not only as a grid simulator and four-quadrant power amplifier, but also as a four-quadrant regenerative AC/DC electronic load. The full four-quadrant operation, regenerative ability can feedback power to the grid, meet the needs of environmental protection, but also save a lot of electricity and heat dissipation costs. Compact, modular and efficient structure design allows the IT7900P up to 15kVA in 3U single unit, and its power can be extended to 960kVA after master-slave parallel connection. Colorful touch screen with intuitive GUI allows IT7900P to directly define different waveforms. The rich operation modes can meet the test requirement of single-phase, three-phase, inverse-phase and multi-channel. It provides high flexibility for testing and can be widely used in many fields such as PV, ESS and EV.



ESS

PCS energy storage converters, microgrids, home PV energy storage devices



PV

Photovoltaic inverters, power conditioning systems



EV

V2G, V2X, EVSE, vehicle type converters, electric vehicle power supply

Model	Voltage	Current	Power	Phase	Size
IT7902P-350-10U ATE	350V	10A	2kVA	1ф	1U
IT7902P-350-10U	350V	10A	2kVA	1Ф	2U
IT7904P-350-20U-ATE	350V	20A	4kVA	1Ф	1U
IT7904P-350-20U	350V	20A	4kVA	1Ф	2U
IT7905P-350-30U	350V	30A	5kVA	1Ф	3U
IT7906P-350-30 ATE	350V	30A	6kVA	1Ф ог 3Ф	1U
IT7906P-350-30	350V	30A	6kVA	1Ф or 3Ф	2U
IT7906P-350-90	350V	90A	6kVA	1Ф ог 3Ф	3U
IT7909P-350-90	350V	90A	9kVA	1Ф or 3Ф	3U
IT7912P-350-90	350V	90A	12kVA	1Ф ог 3Ф	3U
IT7915P-350-90	350V	90A	15kVA	1Ф or 3Ф	3U
IT7930P-350-180	350V	180A	30kVA	1Ф or 3Ф	6U



Power Electronics

Uninterruptible Power Supply System (UPS), AC power supply, inverter Generators, transformers, AC fans



Electronic Components

Circuit breakers, fuses, connectors



Scientific research, universities, laboratories, certification bodies

AC-DC power adapter testing, electromagnetic compatibility testing

Model	Voltage	Current	Power	Phase	Size
IT7945P-350-270	350V	270A	45kVA	1Ф or 3Ф	15U
IT7960P-350-360	350V	360A	60kVA	1Ф or 3Ф	27U
IT7975P-350-450	350V	450A	75kVA	1Ф or 3Ф	27U
IT7990P-350-540	350V	540A	90kVA	1Ф or 3Ф	27U
IT79105P-350-630	350V	630A	105kVA	1Ф or 3Ф	27U
IT79120P-350-720	350V	720A	120kVA	1Ф or 3Ф	37U
IT79135P-350-810	350V	810A	135kVA	1Ф or 3Ф	37U
IT79150P-350-900	350V	900A	150kVA	1Ф or 3Ф	37U
IT79165P-350-990	350V	990A	165kVA	1Ф or 3Ф	37U

^{*1} ATE models are not equipped with touch screen and operating keyboard

^{*}Inverting and phase-locking function can achieve higher voltage test

^{*1}U/2U models are coming soon.

^{*}Please contact ITECH for higher power needs.

^{*}The above specifications are subject to update without notice.

IT7900P High Performance Regenerative Grid Simulator

Parameter Features

- High power density, up to 6 kVA for 2U and 15 kVA for 3U
- Voltage can reach 350V L-N
- Master and slave equal flow, parallel machines up to 960kVA *1
- Highly efficient power regeneration
- · Comprehensive working modes selectable: single-phase, three-phase, reversed phase and multi-channel, Voltage extension to 200% of rated voltage in inverted mode
- · Support LIST/SWEEP/Surge&Sag three waveform modes
- Built-in rich waveform database

- · Harmonic simulation and analysis function up to 50 times, built-in IEC61000-3-2/3-12 *2
- Can simulate arbitrary waveform output, support CSV file import waveform
- Phase angle 0-360° settable
- Touch screen design, simple UI interface
- Built-in USB/CAN/LAN /Digital IO interface,optional GPIB/analog & RS232 interface
- Full protection functions including automatic clearing, POVP, watchdog, etc.
- Optional source accessories *3

Source Features

- Regenerative grid simulator & full 4-Quadrant AC&DC power sources
- Output frequency: 16-2400Hz *4
- Power Amplifier function for PHiL applications
- · Professional islanding test mode, support R, L, C and active, reactive power settings
- Four output modes of AC/DC/AC+DC/DC+AC can be realized
- Multi-channel function, single unit can test 1-3 DUTs at the same time *5
- Programmable output impedance, simulation of real-world impedance Harmonic/inter harmonic synthesis

- Frequency lock and phase lock function to achieve 6 phase& 12 phase power output
- Compliance tests incl. LVRT /Phase Jump/Frequency variation/harmonic injection
- Supported regulatory testing include IEC61000-4-11/4-13/4-14/4-28 etc.
- Provide rich trigger configuration, synchronous capture of the voltage waveform of the object to be measured, to achieve data acquisition and simulation functions
- Completion of civil avionics and IEC testing by optional software *3

Load Features

- · Regenerative full 4-Quadrant AC&DC load
- Output frequency: 16-500Hz
- AC mode supports CC/CP/CR/CS/CC+CR/CE multiple operating modes, and CE mode can simulate a variety of circuit topologies such as single-phase rectifier RLC and shunt RLC.
- DC mode supports 9 working modes such as CC/CR/CP/CV

- · AC mode supports both rectified and non-rectified modes
- Adjustable crest factor: 1.414 ~ 5.0
- Support phase shift function in the range of -180°~180° *6
- The unit power factor1 function allows the current waveform to vary with the voltage waveform and the power factor is as close to 1 as possible
- Supporting unloading angle control, 0-359° adjustable
- *1 For 1U/2U models, max.16 units can be parallel connected, for 3U models max. 64 units can be parallel connected.
- *2 Voltage/current harmonic analysis, voltage harmonic simulation in source mode, current harmonic simulation in load mode, fundamental wave≤60Hz
- *4 In grid simulator and island simulation mode, 16~150Hz
- *5 Not available for single-phase models
- *6 After the rectification function is turned on, the setting range of the phase shift is restricted by the crest factor



IT7900P High Performance Regenerative Grid Simulator



All in one unit

IT7900P series integrates 3 products, a grid simulator(IT7900), an AC/DC power supply (IT7800) and a regenerative AC/DC load (IT8200).





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High power regeneration efficiency

Whether it is used as a grid simulator or a load, in AC or DC mode, the IT7900P is high efficiently power regenerative. The energy generated by the DUT can be fed back to the local grid instead of dissipating in the form of heat, which is good for energy-saving and environment protection.





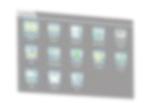
High power density

The IT7900P series can be both 1U/2U/3U stand-alone unit and 15U/27U/37U cabinets. It can meet the test requirements of 2k~165kVA. Among them, the size of the 3U/15kVA model is only 1/12 of the ordinary AC power supply on the market, which can be placed on your test bench, largely saves your room.



IT7900P High Performance Regenerative Grid Simulator









Various test items

Sliding the touch screen of the IT7900P series is as simple as operating a mobile phone. The intuitive GUI not only allows multiple parameters displayed at the same time, but also multiple display ways are selectable, such as waveform graph, histogram, vector diagram and list.

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Multiple protection and communication interfaces

IT7900P series has a variety of protection functions to ensure the safety of the test, including: over-current Rms protection, over current peak protection, over temperature protection, automatic clear protection, software watchdog and so on. IT7900P not only has built-in USB/CAN/LAN/digital IO interfaces, but also provides optional GPIB/analog & RS232.

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Power extension by master-slave parallel connection

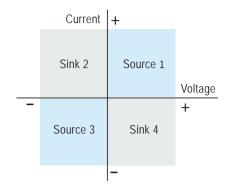
Through the master-slave parallel connection, the power of IT7900P can be extended up to 960kVA. It can be easily paralleled without disassembling and assembling the cabinet, and the multi-modules can synchronously share the current output. Not only will it retain all functions after paralleling, but there will be no precision sacrifice.

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Outstanding Features

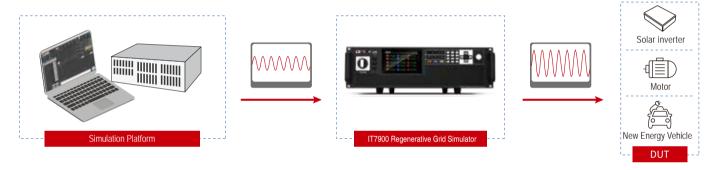
4-Quadrant output

IT7900P series is not only a full four-quadrant power grid simulator, but also a full four-quadrant AC/DC electronic load. It can operate in all four quadrants. The efficient energy regeneration function makes it good for testing the frequency change of grid-connected PV inverters, voltage transients and anti-islanding protection.



Full 4-Quadrant Power Amplifier

The IT7900P series regenerative grid simulator can be used as a power amplifier to complete power hardware in the loop (PHIL) applications for microgrids, energy storage and new energy vehicles. The digital I/O or a standard suite of analog signal can be input via an external analog interface (optional) and then amplified without distortion to a real power waveshape with an external analog response time of less than 200us.



Professional Anti-islanding Test Mode

To meet the certification test of anti-islanding effect for grid-tied products, the IT7900P series provide a professional anit-islanding test mode. Users can adjust RLC parameters or configure the parameters of active power and reactive power to achieve the effect of simulating purely resistive or nonlinear grid loads, and further verify the anti-islanding protection response time of grid-tied DUTs under different equivalent impedances, three-phase load balancing and non-balancing conditions.

The solution helps engineers to simplify the test circuit and cost savings of additional equipment such as RLC load and power meter.

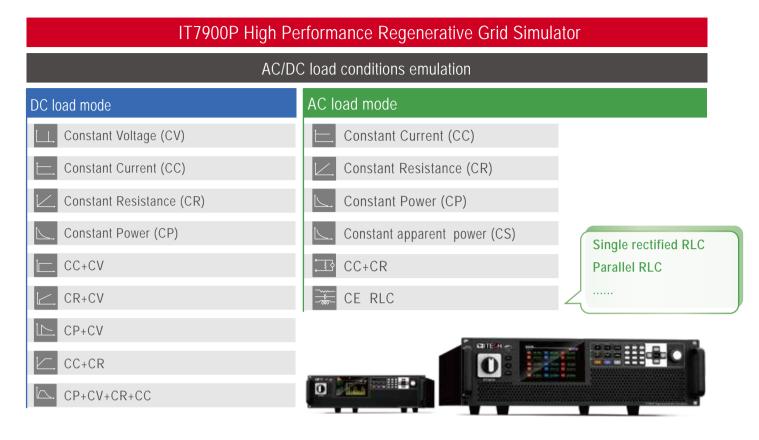
Pre-compliance regulation test

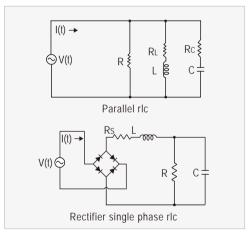
According to industry standards, IT7900P series has built-in regulation standards such as IEC 61000-4-11/4-13/4-14/4-28, IEC61000-3-2/3-12. These regulations can be recalled directly. You can also customize the test items required by regulations too.

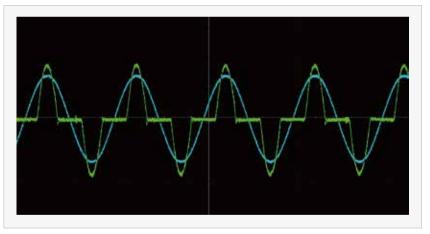




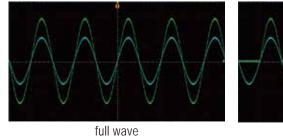
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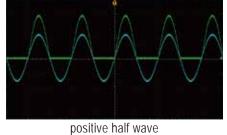


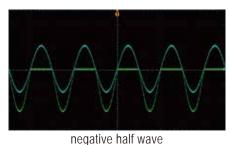




IT7900P AC electronic load can enable the 'Rectified' function in AC mode, so that the load works in the first and third quadrants to ensure that the voltage and current flow always in the same direction. At this time, full wave, positive half wave, or negative half wave can be freely selected.



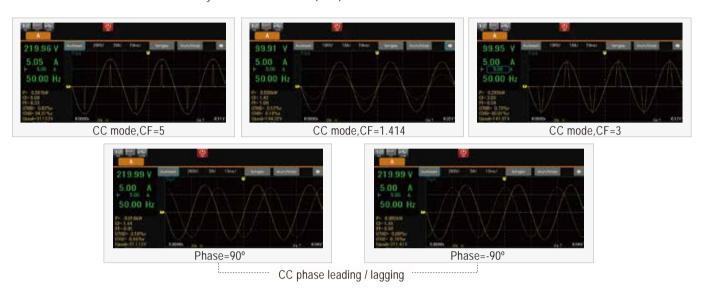




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CF 1.414-5.0

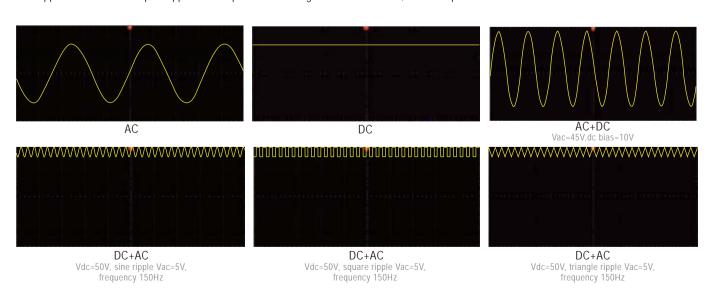
The crest factor indicates the extreme peaks of the waveform. For applications that require a pure sine wave, it is desirable to have a CF value of the load current waveform of 1.414 or as close as possible. However, in practical applications, the peak shape of the current waveform of the load may become very sharp and its CF is often higher than 1.414. At this time, the starting point of the sine wave starts to shift from 0 degrees to the positive degree. So you need to correct the waveform. The Crest Factor of the IT8200 can be adjusted from 1.414 to 5.0, and it also allows to set the phase shift angle from -90 °~90 °, correct the resulting amplitude, and keep the RMS unchanged. This enables more accurate simulation of field test conditions to ensure the reliability of the unit under test (UUT).



Multiple operation modes

AC,DC,AC+DC,DC+AC working mode

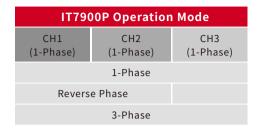
IT7900P series can be used as a "full four-quadrant AC/DC power supply" and provides four output modes: AC, DC, AC+DC, and DC+AC. Not only provide pure AC/DC output, use AC+DC and DC+AC output modes to realize "AC output superimposed DC bias" and simulate "DC output waveform with ripple" to meet the complex application requirements of engineers. In DC mode, the rated power in 100% AC mode can be achieved.



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Single-phase, three-phase, reverse phase, multi-channel operation modes

IT7900P series has very flexible operation mode that single-phase, three-phase/ reverse phase /multi-channel output mode can be selected. Combined with the powerful programming function, it can simulate three-phase unbalance, phase loss and phase sequence reverse connection and so on. In the reverse phase mode, users can obtain a single-phase output voltage of up to 700V, and the power remains at 2/3 of the original. Multi-channel mode allows users to test 1-3 independent DUT at the same time. One device for multiple purposes, better equipment utilization, and reduces test costs for enterprises.



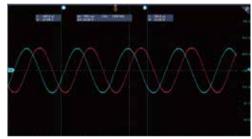






Frequency lock/phase lock function, multi-phase output or high voltage output

IT7900P series can realize frequency locking and phase locking between power supplies through optical fiber, simulating 6-phase and 12-phase power output. It can not only keep the set value updated synchronously, but also has multi-phase protection to meet the complex AC test requirements. This also helps to realize high-voltage tests up to 700Vrms 3 phase. Via the digital IO interface, it can also be used for simple multi-phase system applications.



phase lock, 2400Hz

Measurement Functions

Data acquisition and simulation

IT7900P series integrates an advanced data acquisition system based on digital signal processor, and provides measurement and waveform analysis functions of a digital oscilloscope, a power meter and a digital multimeter. Its current measurement accuracy is as high as 0.1%+0.2%FS, and the voltage measurement accuracy is as high as 0.1%+0.1%FS. 6 oscilloscope curves can be displayed at the same time, which not only saves the cost, but also saves the time for wiring connection. The trigger configuration of IT7900P can synchronously capture the voltage waveform of the DUT, and realize the functions of data acquisition and simulation. The user can import the collected abnormal voltage data of the power grid into the IT7900P to reproduce the power grid status, set the repetition times, offset and other parameters of the waveform.





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Data record

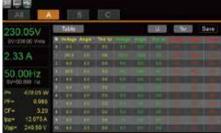
Thanks to the function of large data recording, IT7900P series is capable of recording up to 7 hours of continuous data at short intervals (fastest: 100ms). And it's easy to view the complete curve generating from the start to the end of the test. There are six curves that can be displayed at the same time at most. In addition, you can slide the vernier calipers on the screen to check the exact data at a particular point in the current trend curves. It is useful for analyzing errors during test for a long time or inflection points during loading, etc. Besides, you can export the test data for further analysis by front panel USB interface.



Harmonic analysis

Harmonic analysis functions include both voltage and current harmonic measurement. In the harmonic mode, the voltage and current total harmonic distortion (THD) and the phase difference test of the harmonic to the fundamental wave can be realized. In addition, you can make multiple harmonic measurements. The test results are displayed in a list, histogram or vector diagram, easy to check.



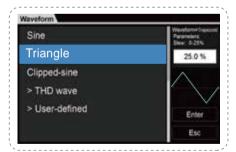




Powerful waveform editing function

Built-in various type of distorted waveforms

In addition to sine waveform, IT7900P series provides various standard AC waveforms, such as triangular wave, sawtooth wave, square wave, trapezoidal wave and clipped sine wave. These waves can be easily recall from the menu and displayed in the LCD touch screen. Moreover, in combination with sequence programming function, users can realize multiple waveform continuous output, to cope with complex power line disturbance test.











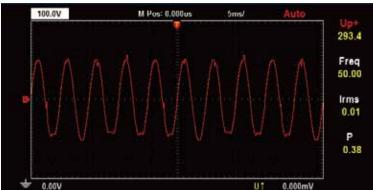


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User-defined waveform function

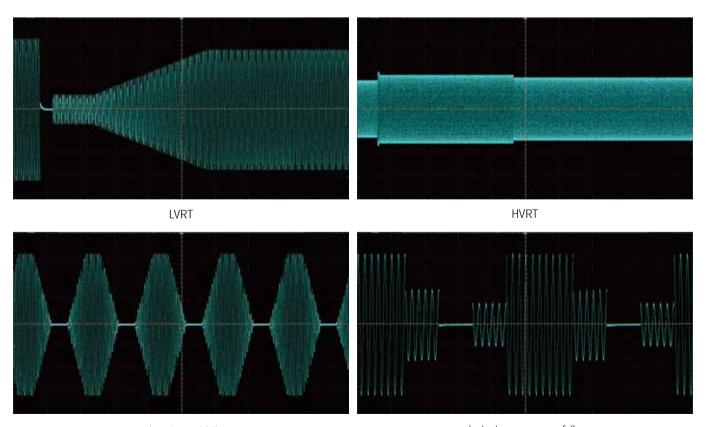
IT7900P series provides user-defined waveform editing function that allows users to simulate the effects of real AC or DC power supply systems on DUT's in different test environments by importing real waveform data into the device, it supports up to 1024 points of data import.





Simulate power grid and low voltage ride through (LVRT) testing

Low voltage ride-through refers to the ability of the power generation system to continue to operate without disconnecting from the grid within a certain range of voltage drop when the grid fault or disturbance causes a voltage drop, and even provides a reactive power to help the system recover the voltage. You can edit the test parameters under LVRT condition. With the fast response, it can fully meet the test requirements of LVRT. At the same time, the IT7900P series has the function of arbitrary waveform. With the LIST function, it can edit and simulate various grid disturbance waveforms through the panel or software, such as instantaneous power failure, surge and voltage rise and fall.



slow rise and fall

instantaneous power failure

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Harmonic and inter-harmonic simulation

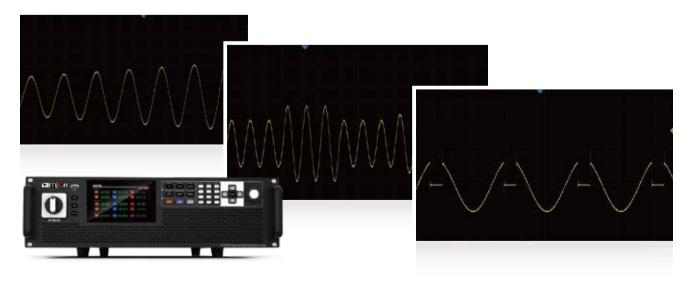
With high-speed DSP technology, IT7900P series is capable of simulating harmonic, inter-harmonic and harmonic synthesis. By setting the amplitude and phase, it can simulate up to 50th harmonics(fundamental frequency is 50Hz or 60Hz), creating a periodic distortion waveform. It also has built-in 30 types harmonic distortion waveforms for quick recall. Harmonic test is one of the important tests for EMC immunity, and single-phase harmonics, three-phase harmonics and three-phase harmonic unbalance output can be realized, also meet IEC regulations test requirements.



LIST/SWEEP/Surge & Sag modes

IT7900P series supports NORMAL,LIST and SWEEP mode. Each mode can work with Surge&Sag function.

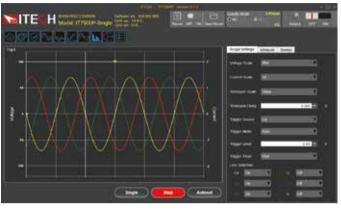
- In LIST mode, a single file supports up to 200 steps, and the waveform type, voltage, frequency, slope and start-stop phase angle can be selected under
 each step. When the output voltage or frequency jumps, a trigger signal can be generated to synchronize external devices, which is especially suitable
 for large-scale test platforms with strict logic control and fast response for inter-device linkage.
- SWEEP is suitable for AC mode, which can test the efficiency of switching power supply, grab the voltage and frequency of the maximum power point, and change the setting parameters in a step-by-step way.
- In NORMAL/LIST/SWEEP modes, Surge&Sag can work with each of them. The surge and sag can be controlled by trigger or cycle, and the starting
 angle of the drop can be set, and waveform smoothing, symmetrical and asymmetrical waveform operations are supported. Waveforms can be quickly
 created to replicate waveform distortions or transient status such as spikes, dropouts, or any other anomalies that can be seen as a single cycle.

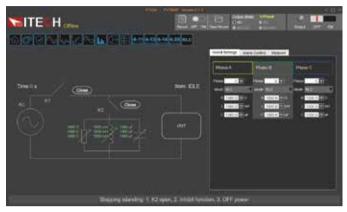


Your Power Testing Solution IT7900P High Performance Regenerative Grid Simulator

Intuitive software interface

IT7900Pseries provides free PC software PV7900P with an intuitive GUI. Meanwhile, it allows remote control, even the ATE models without display screen can be programmed, communicated and monitored.









Optional Accessories

Item	Model	Specification	Description
Parallel	IT-E4029-15U *1	IT15U cabinet	800mm×550mm X907.6mm
	IT-E4029-27U *1	IT27U cabinet	800mm×600mm×1362.75mm
kit	IT-E4029-37U *1	IT37U cabinet	800mm×600mm×1764.35mm
KIL	IT-E168	fiber kit for parallel	for single unit
	IT-E169	fiber kit for parallel	for cabinet
	IT-E258	power cord for 3U unit, 5m, US standard	AC input power cord
	IT-E258-15U	power cord for 15U cabinet, 5m, US standard	AC input power cord
Other	IT-E258-27U	power cord for 27U cabinet, 5m, US standard	AC input power cord
accessories	IT-E258-37U	power cord for 37U cabinet, 5m, US standard	AC input power cord
accessories	IT-E176	GPIB	
	IT-E177	RS232 & analog	

^{*1} There is standard cabinet for models >30kVA



IT-E4029-27U unit: mm

			IT7915P-350-90			
Input parameters ((connect to grid)					
	Wiring connection	3 phase 3	Bwire + ground(PE)			
	Line voltage	RMS (200V~220V) ±109	6 *1 (380V~480V) ±10%			
^ Innut	Line current	RMS	< 33.7A			
C Input	Apparent power		< 17.4kVA			
	Frequency		45~65Hz			
	Power factor	typ	0.98			
utput parameters	s (connect to EUT) (con	1.51	3.75			
ratpat parameters		VLN*2	0~350V			
	Output voltage	VLL	0~606V (3phase) / 0~700V (reverse)			
		RMS	90A (1phase) / 30A (3phase/multichannel/reverse)			
	Output current	Crest Factor *3	6			
	Output current	Peak	270A (1phase) / 90A (3phase/multichannel/reverse)			
			5kVA			
	Output power	Per Phase				
	Voltago cotting	Max. Power	10kVA (reverse phase) / 15kVA (1phase/3phase/multichannel)			
	Voltage setting					
	Range $0\sim350V$ (1phase/3phase/multichannel) / $0\sim700V$ (reverse)					
	Resolution	0.01V				
	Accuracy	0.1%+0.1% F.S (16Hz~500Hz) / 0.1%+(0.2%*	kHz)F.S (500.01Hz~2.4kHz)			
	DC offset voltage	typ	0.02Vdc			
	Current Limit setting					
001:	Range	RMS 90A (1phase) / 30A (3phase/multichannel/reverse)				
C Output	Resolution	0.01A				
	Accuracy	<0.1% + 0.2% F.S. (16Hz~500Hz) / <0.2%	+ 0.3% F.S. (150.01Hz ~ 500Hz) / 0.3%+(0.6%*kHz) F.S (500.01Hz ~ 2.4kHz)			
	Frequency	333.1277 30.270				
	Range	16~500Hz (Low *4) / 16~2.4k (High *4)				
	Resolution	0.01Hz				
		0.01% (16Hz~500Hz) / 0.1% (500.01Hz~2.4H	, LL-)			
	Accuracy waveform synthesis	50/60Hz	up to 50 orders			
		30/00/12	up to 50 orders			
	Phase	0 2/08				
	Range Resolution	0~360° 0.1°				
	Voltage setting	0.1				
	Range	-495~495\/dc (1nhase/multichannel) / -990~0	290V/dc (reverse)			
	Resolution	-495 ~ 495Vdc (1phase/multichannel) / -990 ~ 990Vdc (reverse)				
	Accuracy	<0.1%+0.1% F.S				
	Current setting					
	Range	-30 ~ 30Adc (multichannel/reverse) / -90 ~ 90Adc (1phase)				
OC Output	Resolution	0.01A				
	Accuracy	<0.1% + 0.2% F.S.				
	Max. power					
		Des Channel	5100			
			5KW			
	Phase power Max power (reversephase)	Per Channel Max Power (reverse phase)	5kW 10kW			
	Max. power (reversephase)	Max. Power (reverse phase)	10kW			
	Max. power (reversephase) Total power	Max. Power (reverse phase) Max. Power (1phase/multichannel)				
	Max. power (reversephase) Total power Line regulation	Max. Power (reverse phase) Max. Power (1phase/multichannel) < 0.05% F.S.	10kW 15kW			
oltage stability	Max. power (reversephase) Total power	Max. Power (reverse phase) Max. Power (1phase/multichannel) < 0.05% F.S. < 0.05% F.S. (DC,16Hz~500Hz) / <	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz~2.4kHz)			
oltage stability	Max. power (reversephase) Total power Line regulation Load regulation*5 THD	Max. Power (reverse phase) Max. Power (1phase/multichannel) < 0.05% F.S.	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz~2.4kHz)			
oltage stability	Max. power (reversephase) Total power Line regulation Load regulation*5	Max. Power (reverse phase) Max. Power (1phase/multichannel) < 0.05% F.S. < 0.05% + 0.05% F.S.(DC,16Hz ~ 500Hz) / < < 0.5%(16Hz ~ 100Hz) / < 1%(100.01Hz ~ 500	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz~2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz~2.4kHz)			
	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple	Max. Power (reverse phase) Max. Power (1phase/multichannel) < 0.05% F.S. < 0.05% F.S. < 0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < < 0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS)	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz) < 0.4V 200us			
rogrammable	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS lyp	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz) < 0.4V 200us nase) / 0 ~ 2Ω(reverse)			
rogrammable	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range	$\label{eq:max_power} \begin{tabular}{ll} Max. Power (reverse phase) \\ Max. Power (1phase/multichannel) \\ < 0.05\% F.S. \\ < 0.05\% F.S. (DC,16Hz $\sim 500Hz) / < < 0.5\% (16Hz $\sim 100Hz) / < 1\% (100.01Hz $\sim 50 RMS typ \\ 0 $\sim 10 $(3phase/multichannel) / 0 $\sim 0.333 \Omega $(1pt 0 $\sim 1000uH (3phase/multichannel) / 0 $\sim 333.33 $0 $\sim 5kW (3phase/multichannel) / 0 $\sim 15kW (1pt 0 $\sim 15kW (1p$	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz~2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz~2.4kHz) < 0.4V 200us hase) / 0~2Ω(reverse) 3uH (1phase) / 0~2000uH (reverse) hase) / 0~10kW (reverse)			
rogrammable	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range	$\label{eq:max.power} \begin{tabular}{ll} Max. Power (reverse phase) \\ Max. Power (1phase/multichannel) \\ < 0.05\% F.S. \\ < 0.05\% F.S. (DC,16Hz $\sim 500Hz) / < 0.5\% (16Hz $\sim 100Hz) / < 1\% (100.01Hz ~ 50 RMS \\ typ \\ 0 $\sim 10 $(3phase/multichannel) / 0 $\sim 0.333 \Omega $(1pt 0.2000) (1phase/multichannel) / 0 $\sim 333.33 \\ 0 $\sim 5kW (3phase/multichannel) / 0 $\sim 15kW (1pt 0.200) (1phase/multichannel) / 0 $\sim 15kW (1pt 0.200) $	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / (1%*kHz) (500.01Hz ~ 2.4kHz) < 0.4V 200us hase) / 0 ~ 2Ω(reverse) 3uH (1phase) / 0 ~ 2000uH (reverse) hase) / 0 ~ 10kW (reverse) 1phase) / 0 ~ 10kVar (reverse)			
rogrammable npedance	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range QC Range	$\label{eq:max.power} \begin{tabular}{ll} Max. Power (reverse phase) \\ Max. Power (1phase/multichannel) \\ < 0.05\% F.S. \\ < 0.05\% F.S. (DC,16Hz $\sim 500\text{Hz}) / < < 0.5\% (16Hz $\sim 100\text{Hz}) / < 1\% (100.01\text{Hz} ~ 50 \text{RMS} \\ typ \\ 0 $\sim 10 \text{ (3phase/multichannel)} / 0 $\sim 0.333\Omega \text{ (1pt} \\ 0 $\sim 1000\text{uH (3phase/multichannel)} / 0 $\sim 333.33 \\ 0 $\sim 5\text{kW (3phase/multichannel)} / 0 $\sim 15\text{kVar} (100.01\text{kVar}) / 0 $\sim 15\text{kVar} (100$	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz) < 0.4V 200us asse) / 0 ~ 2Ω(reverse) 3uH (1phase) / 0 ~ 2000uH (reverse) asse) / 0 ~ 10kW (reverse) 1phase) / 0 ~ 10kVar (reverse) 1phase) / 0 ~ 10kVar (reverse)			
rogrammable npedance	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range OL Range QC Range R Range	$\label{eq:max.power} \begin{tabular}{ll} Max. Power (reverse phase) \\ Max. Power (1phase/multichannel) \\ &< 0.05\% F.S. \\ &< 0.05\% + 0.05\% F.S. (DC,16Hz $\sim 500Hz) / < \\ &< 0.5\% (16Hz $\sim 100Hz) / < 1\% (100.01Hz ~ 50 RMS \\ typ \\ 0 $\sim 10 $ (3phase/multichannel) / 0 $\sim 333.33 $ (1ph 0 $\sim 1000uH (3phase/multichannel) / 0 $\sim 333.33 $ (2ph 0 $\sim 5kVar (3phase/multichannel) / 0 $\sim 15kVar (1000Mz (3phase/multichannel) / 0$	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0.Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz) < < 0.4V 200us hase) / 0 ~ 2Ω(reverse) 3uH (1phase) / 0 ~ 2000uH (reverse) hase) / 0 ~ 10kW (reverse) 1phase) / 0 ~ 10kVar (reverse) 1phase) / 0 ~ 10kVar (reverse) 1phase) / 0 ~ 10kVar (reverse) 33Ω (1phase) / 2 ~ 2000Ω (reverse)			
rogrammable npedance	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range OL Range OC Range R Range L Range	$\label{eq:max.power} \begin{tabular}{ll} Max. Power (reverse phase) \\ Max. Power (1phase/multichannel) \\ < 0.05\% F.S. \\ < 0.05\% F.S. \\ < 0.05\% + 0.05\% F.S. (DC,16Hz $\sim 500Hz) / < \\ < 0.5\% (16Hz $\sim 100Hz) / < 1\% (100.01Hz ~ 50 RMS \\ typ \\ 0 $\sim 10 Ω (3phase/multichannel) / 0 ~ 333.33 (1phase/multichannel) / 0 ~ 333.33 (2phase/multichannel) / 0 $\sim 15kW (1phase/multichannel) / 0 $\sim 15kVar (3phase/multichannel) / 0 $\sim 15kVar (1phase/multichannel) / 0 $\sim 15kVar (3phase/multichannel) / 0 $\sim 333 ~ 333 (2phase/multichannel) / 0 $\sim 333 ~ 333 (2phase/multichann$	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rogrammable npedance	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range QC Range R Range C Range C Range C Range C Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) < 0.05% F.S. < 0.05% F.S. < 0.05% F.S.(DC,16Hz ~500Hz) / < < 0.5%(16Hz ~100Hz) / < 1%(100.01Hz ~50 RMS typ 0 ~1Ω (3phase/multichannel) / 0 ~0.333Ω (1ph 0 ~1000uH (3phase/multichannel) / 0 ~15kW (1pf 0 ~5kWar (3phase/multichannel) / 0 ~15kWar (0 ~5kVar (3phase/multichannel) / 0 ~15kVar (1 ~100Ω (3phase/multichannel) / 0 ~15kVar (1 ~100Ω (3phase/multichannel) / 0 .333 ~333 1 ~5000mH (3phase/multichannel) / 0.333 ~16	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rogrammable npedance LC oltage Slew Rate, Typic	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range QC Range R Range C Range C Range C Range C Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. (DC,16Hz ~500Hz) / < <0.5% (16Hz ~100Hz) / <1% (100.01Hz ~50 RMS typ 0~1Ω (3phase/multichannel) / 0~0.333Ω (1ph 0~1000uH (3phase/multichannel) / 0~15kW (1ph 0~5kVar (3phase/multichannel) / 0~15kW (1ph 0~5kVar (3phase/multichannel) / 0~15kVar (1~100Ω (3phase/multichannel) / 0.333~33 1~500mH (3phase/multichannel) / 0.333~33 1~500mH (3phase/multichannel) / 0.333~33 1~500mH (3phase/multichannel) / 0.033~31 ≥2 V/μs with full-scale programmed voltage ste	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rogrammable npedance LC oltage Slew Rate, Typica output Isolation	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range OL Range OC Range R Range L Range C Range C Range C Range	$\label{eq:max.power} \begin{tabular}{ll} Max. Power (reverse phase) \\ Max. Power (1phase/multichannel) \\ < 0.05\% F.S. \\ < 0.05\% F.S. \\ < 0.05\% F.S. (DC,16Hz $\sim 500Hz) / < < 0.5\% (16Hz $\sim 100Hz) / < 1\% (100.01Hz $\sim 50 \text{ RMS} \\ typ \\ 0 $\sim 10 \text{ (3phase/multichannel) / } 0 $\sim 0.333\Omega \text{ (1pt) } 0 $\sim 1000\mu \text{ (3phase/multichannel) / } 0 $\sim 15kW \text{ (1pt) } 0 $\sim 5kW \text{ (3phase/multichannel) / } 0 $\sim 15kWar \text{ (3phase/multichannel) / } 0 $\sim 15kVar \text{ (3phase/multichannel) / } 0 $\sim 15kVar \text{ (3phase/multichannel) / } 0.333 $\sim 333 \times 160 \times 1000M \text{ (3phase/multichannel) / } 0.333 $\sim 160 \times 1000M \text{ (3phase/multichannel) / } 0.033 $\sim 160 \times 1000M \text{ (3phase/multichannel) / } 0.033 $\sim 160 \times 1000M \text{ (3phase/multichannel) / } 0.033 $\sim 160 \times 1000M \text{ (3phase/multichannel) / } 0.033 $\sim 160 \times 1000M \text{ (3phase/multichannel) / } 0.033 $\sim 160 \times 1000M \text{ (3phase/multichannel) / } 0.033 $\sim 160 \times 1000M \text{ (3phase/multichannel) / } 0.003 $\sim 1000M (3pha$	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rogrammable npedance LC oltage Slew Rate, Typica output Isolation	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range OL Range OC Range R Range L Range C Range C Range C Range	$\label{eq:max.power} \begin{tabular}{ll} Max. Power (reverse phase) \\ Max. Power (1phase/multichannel) \\ < 0.05\% F.S. \\ < 0.05\% F.S. \\ < 0.05\% F.S. (DC,16Hz $\sim 500Hz) / < < 0.5\% (16Hz $\sim 100Hz) / < 1\% (100.01Hz $\sim 50 \text{ RMS} \\ \text{Iyp} \\ 0 $\sim 10 \text{ (3phase/multichannel) / } 0 $\sim 0.333\Omega \text{ (1pt) } 0 $\sim 1000\text{uH} \text{ (3phase/multichannel) / } 0 $\sim 15\text{kW} \text{ (1pt) } 0 $\sim 5\text{kW} \text{ (3phase/multichannel) / } 0 $\sim 15\text{kW} \text{ (1pt) } 0 $\sim 5\text{kVar} \text{ (3phase/multichannel) / } 0 $\sim 15\text{kVar} \text{ (} 0 $\sim 5\text{kVar} \text{ (3phase/multichannel) / } 0.333 $\sim 333 \\ 1 $\sim 5000\text{mH} \text{ (3phase/multichannel) / } 0.333 $\sim 10 \\ 0.001 $\sim 5\text{mF} \text{ (3phase/multichannel) / } 0.333 $\sim 10 \\ 0.001 $\sim 5\text{mF} \text{ (3phase/multichannel) / } 0.003 $\sim 10 \\ $\sim 2\text{ V/µs} with full-scale programmed voltage sterming of the second of the seco$	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rogrammable npedance LC oltage Slew Rate, Typica output Isolation	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range OL Range OC Range R Range L Range C Range C Range C Range	$\label{eq:max.power} \begin{tabular}{ll} Max. Power (reverse phase) \\ Max. Power (1phase/multichannel) \\ &< 0.05\% F.S. \\ &< 0.05\% F.S. \\ &< 0.05\% + 0.05\% F.S. (DC,16Hz $\sim 500Hz) / < \\ &< 0.5\% (16Hz $\sim 100Hz) / < 1\% (100.01Hz ~ 50 RMS \\ typ \\ 0 $\sim 10 (3phase/multichannel) / 0 $\sim 333.33 (1phase/multichannel) / 0 $\sim 333.33 (1phase/multichannel) / 0 $\sim 15kW (1phase/multichannel) / 0 $\sim 15kVar (3phase/multichannel) / 0 $\sim 15kVar (3phase/multichannel) / 0 $\sim 15kVar (1 $\sim 1000 (3phase/multichannel) / 0.333 $\sim 333 1 $\sim 5000mH (3phase/multichannel) / 0.333 $\sim 16 0.001 $\sim 5mF (3phase/multichannel) / 0.003 $\sim 11 $\sim 1000 Mc (3phase/multichannel) / 0.003 $\sim 1000 Mc (3phase/multichann$	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0.Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rogrammable npedance LC oltage Slew Rate, Typica output Isolation	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range OL Range OC Range R Range L Range C Range C Range L Range L Range L Range L Range L Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) < 0.05% F.S. < 0.05% F.S. < 0.05% F.S.(DC,16Hz ~500Hz) / < < 0.5%(16Hz ~100Hz) / < 1%(100.01Hz ~50 RMS typ 0 ~1Ω (3phase/multichannel) / 0 ~0.333Ω (1ph 0 ~1000uH (3phase/multichannel) / 0 ~15kW (1pf 0 ~5kWar (3phase/multichannel) / 0 ~15kWar (0 ~5kVar (3phase/multichannel) / 0 ~15kVar (1 ~100Ω (3phase/multichannel) / 0 ~333 ~333 1 ~5000mH (3phase/multichannel) / 0.333 ~333 1 ~5000mH (3phase/multichannel) / 0.033 ~10.001 ~5mF (3phase/multichannel) / 0.003 ~10.001 ~5mF (3phase/multichannel) / 0.001 ~5mF (3phase/multichannel) / 0.001 ~5mF (3phase/multichannel) / 0.003 ~10.001 ~5mF (3phase/multichannel) / 0.001 ~5mF (3phas	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rrogrammable npedance RLC oltage Slew Rate, Typica Dutput Isolation	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range QC Range L Range C Range L Range L Range URange C Range L Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS) typ 0 ~1Ω (3phase/multichannel) / 0 ~0.333Ω (1ph 0 ~1000uH (3phase/multichannel) / 0 ~15kW (1ph 0 ~5kWar (3phase/multichannel) / 0 ~15kWar (0 ~5kVar (3phase/multichannel) / 0 ~15kVar (1 ~100Ω (3phase/multichannel) / 0 ~15kVar (1 ~100Ω (3phase/multichannel) / 0.333 ~333 1 ~5000mH (3phase/multichannel) / 0.033 ~16 0.001 ~5mF (3phase/multichannel) / 0.003 ~15 ≥2 V/μs with full-scale programmed voltage ste 550Vac	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rogrammable npedance LC oltage Slew Rate, Typica output Isolation	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range QC Range C Range L Range L Range I Range L Range I Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS typ 0~1Ω (3phase/multichannel) / 0~0.333Ω (1ph 0~1000uH (3phase/multichannel) / 0~15kW (1ph 0~5kVar (3phase/multichannel) / 0~15kVar (1000Ω (3phase/multichannel) / 0~15kVar (1100ΩΩ (3phase/multichannel) / 0.333~33 1~500mH (3phase/multichannel) / 0.033~333 1~500mH (3phase/multichannel) / 0.033~21 22 V/μs with full-scale programmed voltage ste 550Vac	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rrogrammable npedance RLC oltage Slew Rate, Typica Dutput Isolation	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range OL Range OC Range R Range L Range C Range C Range L Range L Range L Range L Range L Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS) typ 0 ~1Ω (3phase/multichannel) / 0 ~0.333Ω (1ph 0 ~1000uH (3phase/multichannel) / 0 ~15kW (1ph 0 ~5kWar (3phase/multichannel) / 0 ~15kWar (0 ~5kVar (3phase/multichannel) / 0 ~15kVar (1 ~100Ω (3phase/multichannel) / 0 ~15kVar (1 ~100Ω (3phase/multichannel) / 0.333 ~333 1 ~5000mH (3phase/multichannel) / 0.033 ~16 0.001 ~5mF (3phase/multichannel) / 0.003 ~15 ≥2 V/μs with full-scale programmed voltage ste 550Vac	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rrogrammable npedance RLC oltage Slew Rate, Typica Dutput Isolation	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range QC Range R Range C Range L Range I Rang	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS) typ 0~10 (3phase/multichannel) / 0~0.333Ω (1pt) 0~1000uH (3phase/multichannel) / 0~15kW (1pt) 0~5kW (3phase/multichannel) / 0~15kW (1pt) 0~5kVar (3phase/multichannel) / 0~15kVar (1 ~1000Ω (3phase/multichannel) / 0.333~333 1~5000mH (3phase/multichannel) / 0.333~12 2 V/μs with full-scale programmed voltage ste 550Vac VLN VLL DC, 16-500Hz RMS Crest Factor *7 Peak	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0.04y / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
Programmable inpedance RLC oltage Slew Rate, Typica Dutput Isolation	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range QC Range C Range L Range L Range I Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. (20.5% F.S. (DC,16Hz ~500Hz) / < <0.5% (16Hz ~100Hz) / <1% (100.01Hz ~50 RMS typ 0~1Ω (3phase/multichannel) / 0~0.333Ω (1pt) 0~1000uH (3phase/multichannel) / 0~15kW (1pt) 0~5kWar (3phase/multichannel) / 0~15kWar (1pt) 0~5kVar (3phase/multichannel) / 0~15kVar (1 ~1000Ω (3phase/multichannel) / 0~15kVar (1 ~1000Ω (3phase/multichannel) / 0.333~33 1~5000mH (3phase/multichannel) / 0.033~12 ≥2 V/μs with full-scale programmed voltage ste 550Vac VLN VLL DC, 16~500Hz RMS Crest Factor *7	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz~2.4kHz) 0.0Hz) / <1%+(1%*kHz) (500.01Hz~2.4kHz) < <0.4V 200us nase) / 0~2Ω(reverse) 3uH (1phase) / 0~2000uH (reverse) nase) / 0~10kW (reverse) 1phase) / 0~10kWar (reverse) 1phase) / 0~10kVar (reverse) 233Ω (1phase) / 2~2000Ω (reverse) 5mF (1phase) / 2~2000πH (reverse) 5mF (1phase) / 2~5mF (reverse) 90A (1phase) / 30A (3phase/multichannel/reverse) 90A (1phase) / 30A (3phase/multichannel/reverse) 5			
Programmable mpedance RLC Ollage Slew Rate, Typica Dutput Isolation Dutput parameters	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range QC Range R Range C Range L Range I Rang	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS) typ 0~1Ω (3phase/multichannel) / 0~0.333Ω (1ph 0~1000uH (3phase/multichannel) / 0~15kW (1ph 0~5kW (3phase/multichannel) / 0~15kW (1ph 0~5kVar (3phase/multichannel) / 0~15kVar (1phase/multichannel) / 0~15kVar (1phase/multichannel) / 0~333~333 1~5000H (3phase/multichannel) / 0.333~16 0.001~5mF (3phase/multichannel) / 0.033~16 0.001~5mF (3phase/multichannel) / 0.003~17 22 V/μs with full-scale programmed voltage ste 550Vac VLN VLN VLN Crest Factor *7 Peak Per Phase	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0.04y / (1%*kHz) (500.01Hz ~ 2.4kHz)			
Programmable inpedance RLC ollage Slew Rate, Typica Dutput Isolation Output parameters	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range OC Range C Range L Range L Range I Range I Range UL Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS typ 0~1Ω (3phase/multichannel) / 0~0.333Ω (1ph 0~1000uH (3phase/multichannel) / 0~15kW (1pf 0~5kWar (3phase/multichannel) / 0~15kWar (1phase/multichannel) / 0~15kVar (1phase/multichannel) / 0~333~333 1~5000mH (3phase/multichannel) / 0.033~133 1~5000mH (3phase/multichannel) / 0.003~11 ≥2 V/μs with full-scale programmed voltage ste 550Vac VLN VLL DC, 16~500Hz RMS Crest Factor *7 Peak Per Phase Max. Power	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0.0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
rrogrammable npedance RLC Ollage Slew Rale, Typica Dutput Isolation Dutput parameters	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range OL Range OL Range C Range L Range I Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS) typ 0~1Ω (3phase/multichannel) / 0~0.333Ω (1ph 0~1000uH (3phase/multichannel) / 0~15kW (1ph 0~5kW (3phase/multichannel) / 0~15kW (1ph 0~5kVar (3phase/multichannel) / 0~15kVar (1phase/multichannel) / 0~15kVar (1phase/multichannel) / 0~333~333 1~5000H (3phase/multichannel) / 0.333~16 0.001~5mF (3phase/multichannel) / 0.033~16 0.001~5mF (3phase/multichannel) / 0.003~17 22 V/μs with full-scale programmed voltage ste 550Vac VLN VLN VLN Crest Factor *7 Peak Per Phase	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0.04 / (1%*kHz) (500.01Hz ~ 2.4kHz)			
Programmable mpedance RLC Ollage Slew Rate, Typica Dutput Isolation Dutput parameters	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range P Range QL Range QL Range C Range R Range L Range I Range I Range I Range C Range I Range C Range C Range I Range C Range C Range C Range I Range C Range C Range I Range C Range	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS) typ 0~1Ω (3phase/multichannel) / 0~0.333Ω (1ph 0~1000uH (3phase/multichannel) / 0~15kW (1pt 0~5kVar (3phase/multichannel) / 0~15kVar (1000 RVar (3phase/multichannel) / 0~15kVar (1000 RVar (1	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
Programmable mpedance RLC Ollage Slew Rate, Typica Dutput Isolation Dutput parameters	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range C Range QC Range R Range L Range L Range Input rollage Input requency Input current Input power CC Mode Current Range Resolution Accuracy*8	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS) typ 0 ~1Ω (3phase/multichannel) / 0 ~0.333Ω (1ph 0 ~1000uH (3phase/multichannel) / 0 ~15kW (1ph 0 ~5kWar (3phase/multichannel) / 0 ~15kWar (0 ~5kVar (3phase/multichannel) / 0 ~15kVar (1 ~100Ω (3phase/multichannel) / 0 ~333 ~333 1 ~5000mH (3phase/multichannel) / 0.333 ~333 1 ~5000mH (3phase/multichannel) / 0.033 ~16 0.001 ~5mF (3phase/multichannel) / 0.003 ~15 ≥2 V/μs with full-scale programmed voltage ste 550Vac VLN VLL DC, 16-500Hz RMS Crest Factor *7 Peak Per Phase Max. Power	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0Hz) / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
Voltage stability Programmable mpedance RLC Voltage Slew Rate, Typica Dutput Isolation Dutput parameters	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range OL Range OC Range R Range L Range UR Ra	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS typ 0 ~1Ω (3phase/multichannel) / 0 ~0.333Ω (1pt) 0 ~1000uH (3phase/multichannel) / 0 ~15kW (1pt) 0 ~5kW (3phase/multichannel) / 0 ~15kW (1pt) 0 ~5kVar (3phase/multichannel) / 0 ~15kVar (1 ~1000Ω (3phase/multichannel) / 0 ~315kVar (1 ~1000Ω (3phase/multichannel) / 0.333 ~333 1 ~5000mH (3phase/multichannel) / 0.033 ~16 20 V/μs with full-scale programmed voltage ste 550Vac VLN VLN VLL DC, 16-500Hz RMS Crest Factor *7 Peak Per Phase Max. Power RMS 0.01A <0.1% + 0.2% F.S. (DC,16Hz ~150Hz) / <0.	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0.042 / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			
Programmable mpedance RLC Ollage Slew Rate, Typica Dutput Isolation Dutput parameters	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range C Range QC Range R Range L Range L Range Input rollage Input requency Input current Input power CC Mode Current Range Resolution Accuracy*8	Max. Power (reverse phase)	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0.027 + (10.1%*kHz) (500.01Hz ~ 2.4kHz)			
Programmable inpedance RLC ollage Slew Rate, Typica Dutput Isolation Output parameters	Max. power (reversephase) Total power Line regulation Load regulation*5 THD Voltage ripple Dynamic response*6 R Range L Range OL Range OC Range R Range L Range UR Ra	Max. Power (reverse phase) Max. Power (1phase/multichannel) <0.05% F.S. <0.05% F.S. <0.05% + 0.05% F.S.(DC,16Hz ~500Hz) / < <0.5%(16Hz ~100Hz) / <1%(100.01Hz ~50 RMS typ 0 ~1Ω (3phase/multichannel) / 0 ~0.333Ω (1pt) 0 ~1000uH (3phase/multichannel) / 0 ~15kW (1pt) 0 ~5kW (3phase/multichannel) / 0 ~15kW (1pt) 0 ~5kVar (3phase/multichannel) / 0 ~15kVar (1 ~1000Ω (3phase/multichannel) / 0 ~315kVar (1 ~1000Ω (3phase/multichannel) / 0.333 ~333 1 ~5000mH (3phase/multichannel) / 0.033 ~16 20 V/μs with full-scale programmed voltage ste 550Vac VLN VLN VLL DC, 16-500Hz RMS Crest Factor *7 Peak Per Phase Max. Power RMS 0.01A <0.1% + 0.2% F.S. (DC,16Hz ~150Hz) / <0.	10kW 15kW 0.05% + (0.1%*kHz) F.S(500.01Hz ~ 2.4kHz) 0.042 / <1%+(1%*kHz) (500.01Hz ~ 2.4kHz)			

	CS Mode					
	Range	Max. Power	15kVA (1phase/3phase) / 10kVA (reverse phase)			
	3-	Per Phase	5kVA (3phase)			
	5 1 11		JAVA (Juliase)			
	Resolution	0.001kVA				
	Accuracy	<0.4% +0.4% F.S. (DC,16Hz~500Hz)				
	CR Mode					
	5	RMS	$0.34 \sim 389\Omega$ (1phase) / 1 \sim 1167Ω (3phase)			
	Range	reverse phase	2~2334Ω			
	Resolution		2 200132			
		0.001Ω				
	Accuracy *10	,				
	Circuit Emulation(CE)					
	R Range	$0.33 \sim 1000\Omega$ (1phase) / 1 $\sim 3000\Omega$ (reverse phase) / 1	~ 3000Ω (3phase)			
	L Range	1 ~ 2000uH (1phase) / 3 ~ 2000uH (reverse phase) / 3 -	- 2000uH (3phase)			
	C Range	0.001 ~ 9900uF (1phase) / 0.001 ~ 3300uF (reverse pha	ase) / 0.001 ~ 3300 u.E (3nhase)			
	Rc Range	$0.33 \sim 1000\Omega$ (1phase) / 1 ~ 3000Ω (reverse phase) / 1	, , ,			
	RL Range	$0.33 \sim 1000\Omega$ (1phase) / 1 $\sim 3000\Omega$ (reverse phase) / 1	<u> </u>			
		,				
AC Mode	IL Range	0 ~ 272.7A (1phase) / 0 ~ 90.90A (reverse phase) / 0 ~ 90.90A (3phase)				
	Max peak current	272.7A (1phase) / 90.9A (reverse phase) / 90.9A (3phase)	se)			
	Circuit Emulation(CE)-	-Rectifier single phase rlc				
	R Range	$0.33 \sim 1000\Omega$ (1phase) / 1 ~ 3000Ω (reverse phase) / 1	~ 3000Q (3phase)			
	L Range	0.1 ~ 2000uH (1phase) / 0.3 ~ 2000uH (reverse phase)				
		, , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·			
	C Range	0.001 ~ 9900uF (1phase) / 0.001 ~ 3300uF (reverse ph	, , ,			
	RS Range	$0 \sim 1000\Omega$ (1phase) / $0 \sim 3000\Omega$ (reverse phase) / $0 \sim 3000\Omega$	X 1 7			
	Vcap Range	0 ~ 499.924V (1phase) / 0 ~ 499.924V (reverse phase)	0 ~ 499.924V (3phase)			
	Vdiode Range	0 ~ 5V (1phase) / 0 ~ 5V (reverse phase) / 0 ~ 5V (3pha	se)			
	Max peak current	272.7A (1phase) / 90.9A (reverse phase) / 90.9A (3phase)	se)			
	Phase Range	, , , , , , , , , , , , , , , , , , ,				
	r nass rangs	Rectified Mode *11	-82.8°~+82.8°			
	Range					
	D 1 1	-90°~+90° (Current Source Mode: +90.01°~+180° & -90	(01°~-180°)			
	Resolution	0.1°				
	Accuracy	1% F.S.				
	CF setting					
	Range	1.414 ~ 5.0				
	Resolution	0.001				
		30 ~ 499V				
	voltage range					
DC Mode	current range	0 ~ 90A (1phase)				
	current rise time	200us				
	working mode CC, CV, CR, CP					
	Working mode	00,00,000				
Measurement para	meter (grid simulator m					
Measurement para Voltage RMS	meter (grid simulator m	ode)	%"kHz) F.S (500.01Hz~2.4kHz)			
Voltage RMS	nmeter (grid simulator me Resolution	ode) 0.01V	%"kHz) F.S (500.01Hz~2.4kHz)			
	meter (grid simulator m Resolution Accuracy Resolution	ode) 0.01V <0.1%+0.1% F.S. (DC,16Hz ~500Hz) / <0.1%+(0.2 0.01A				
Voltage RMS Current RMS	meter (grid simulator m Resolution Accuracy Resolution Accuracy	ode) 0.01V <0.1%+0.1% F.S. (DC,16Hz ~500Hz) / <0.1%+(0.2 0.01A <0.1% + 0.2% F.S. (DC,16Hz ~150Hz) / <0.2% + 0	%"kHz) F.S (500.01Hz~2.4kHz) 3% F.S. (150.01Hz~500Hz) / <0.3% + (0.6%"kHz) F.S (500.01Hz~2.4kHz)			
Voltage RMS	Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution	ode) 0.01V <0.1%+0.1% F.S. (DC,16Hz ~500Hz) / <0.1%+(0.2 0.01A <0.1% + 0.2% F.S. (DC,16Hz ~150Hz) / <0.2% + 0 0.1A	3% F.S. (150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~ 2.4kHz)			
Voltage RMS Current RMS	meter (grid simulator m Resolution Accuracy Resolution Accuracy Resolution Accuracy	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2 0.01A < 0.1% + 0.2% F.S. (DC,16Hz ~ 150Hz) / < 0.2% + 0 0.1A < 0.4% + 0.6% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + (16Hz ~ 150Hz)	3% F.S. (150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~ 2.4kHz)			
Voltage RMS Current RMS	meter (grid simulator macesolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2	3% F.S. (150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~ 2.4kHz) .2%*kHz) F.S (500.01Hz ~ 2.4kHz)			
Voltage RMS Current RMS Peak current	meter (grid simulator m Resolution Accuracy Resolution Accuracy Resolution Accuracy	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2 0.01A < 0.1% + 0.2% F.S. (DC,16Hz ~ 150Hz) / < 0.2% + 0 0.1A < 0.4% + 0.6% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + (16Hz ~ 150Hz)	3% F.S. (150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~ 2.4kHz) .2%*kHz) F.S (500.01Hz ~ 2.4kHz)			
Voltage RMS Current RMS Peak current	meter (grid simulator m Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2	3% F.S. (150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~ 2.4kHz) .2%*kHz) F.S (500.01Hz ~ 2.4kHz)			
Voltage RMS Current RMS Peak current Output power Harmonic measurement	meter (grid simulator m Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2 0.01A < 0.1% + 0.2% F.S. (DC,16Hz ~ 150Hz) / < 0.2% + 0 0.1A < 0.4% + 0.6% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + (1 0.001kW < 0.4% + 0.4% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + < 50060Hz	3% F.S. (150.01Hz ~500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~2.4kHz) .2%*kHz) F.S (500.01Hz ~2.4kHz) (0.8%*kHz) F.S (500.01Hz ~2.4kHz)			
Voltage RMS Current RMS Peak current Output power Harmonic measurement	Resolution Accuracy t Max.	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2 0.01A < 0.1% + 0.2% F.S. (DC,16Hz ~ 150Hz) / < 0.2% + 0 0.1A < 0.4% + 0.6% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + (1 0.001kW < 0.4% + 0.4% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + < 50060Hz node)	3% F.S. (150.01Hz ~500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~2.4kHz) .2%*kHz) F.S (500.01Hz ~2.4kHz) (0.8%*kHz) F.S (500.01Hz ~2.4kHz)			
Voltage RMS Current RMS Peak current Output power Harmonic measurement	meter (grid simulator macsolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy ti Max.	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2 0.01A < 0.1% + 0.2% F.S. (DC,16Hz ~ 150Hz) / < 0.2% + 0 0.1A < 0.4% + 0.6% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + (1 0.001kW < 0.4% + 0.4% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + < 50/60Hz mode) 0 ~ 350Vrms	3% F.S. (150.01Hz ~500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~2.4kHz) .2%*kHz) F.S (500.01Hz ~2.4kHz) (0.8%*kHz) F.S (500.01Hz ~2.4kHz)			
Voltage RMS Current RMS Peak current Output power Harmonic measurement Measurement para	meter (grid simulator managemeter (grid simulator management) Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy t Max. Accuracy Range	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~ 500Hz) / < 0.1%+(0.2 0.01A < 0.1% + 0.2% F.S. (DC,16Hz ~ 150Hz) / < 0.2% + 0 0.1A < 0.4% + 0.6% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + (1 0.001kW < 0.4% + 0.4% F.S. (DC,16Hz ~ 500Hz) / < 0.4% + < 50/60Hz mode) 0 ~ 350Vrms 0.01V	3% F.S. (150.01Hz ~500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~2.4kHz) .2%*kHz) F.S (500.01Hz ~2.4kHz) (0.8%*kHz) F.S (500.01Hz ~2.4kHz)			
Voltage RMS Current RMS Peak current Output power Harmonic measurement Measurement para	meter (grid simulator managemeter managemeter (grid simulator managemeter (grid simulator managemeter managemeter managemeter managemeter (grid simulator managemeter	ode) 0.01V <0.1%+0.1% F.S. (DC,16Hz ~500Hz) / <0.1%+(0.2 0.01A	3% F.S. (150.01Hz ~500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~2.4kHz) .2%*kHz) F.S (500.01Hz ~2.4kHz) (0.8%*kHz) F.S (500.01Hz ~2.4kHz)			
Voltage RMS Current RMS Peak current Output power Harmonic measurement Measurement para Voltage RMS	meter (grid simulator managemeter (grid simulator managemeter) Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy tt Max. Ammeter (electronic load of Range Resolution Accuracy Resolution Accuracy Range	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~500Hz) / < 0.1%+(0.2	3% F.S. (150.01Hz ~500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~2.4kHz) .2%*kHz) F.S (500.01Hz ~2.4kHz) (0.8%*kHz) F.S (500.01Hz ~2.4kHz)			
Voltage RMS Current RMS Peak current Output power Harmonic measurement Measurement para	meter (grid simulator managemeter (grid simulator management) Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Range Resolution Accuracy Resolution Accuracy Resolution	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~500Hz) / < 0.1%+(0.2	3% F.S. (150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~ 2.4kHz) .2%*kHz) F.S (500.01Hz ~ 2.4kHz) (0.8%*kHz) F.S (500.01Hz ~ 2.4kHz) up to 50 orders			
Voltage RMS Current RMS Peak current Output power Harmonic measurement Measurement para Voltage RMS	meter (grid simulator managemeter (grid simulator managemeter (grid simulator managemeter (grid simulator managemeter (electronic load managemeter electronic load managemeter e	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~500Hz) / < 0.1%+(0.2	3% F.S. (150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~ 2.4kHz) .2%*kHz) F.S (500.01Hz ~ 2.4kHz) (0.8%*kHz) F.S (500.01Hz ~ 2.4kHz) up to 50 orders			
Voltage RMS Current RMS Peak current Output power Harmonic measurement Measurement para Voltage RMS Current RMS	meter (grid simulator m Resolution Accuracy Resolution Accuracy Resolution Accuracy Resolution Accuracy t Max. Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range	ode) 0.01V < 0.1%+0.1% F.S. (DC,16Hz ~500Hz) / < 0.1%+(0.2	3% F.S. (150.01Hz ~ 500Hz) / < 0.3% + (0.6%*kHz) F.S (500.01Hz ~ 2.4kHz) .2%*kHz) F.S (500.01Hz ~ 2.4kHz) (0.8%*kHz) F.S (500.01Hz ~ 2.4kHz) up to 50 orders			
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Regenerative		
Max. Regenerative power		15kVA
THD		< 5%
Others		
Efficiency	typ	88%
dimension		483.00mm (W) * 151.3mm (H) * 700mm(D) (841.6mm cover and holder included)
Weight		42kg
Working temperature		0 C - 50 C
Programming response time		2ms
Remote Sense Compensation Voltage		20V
Communication interface		Built-in USB/CAN/LAN/Digital IO interface, optional GPIB / Analog&RS232

- *1 (200 \sim 220) \pm 10%, 3 phase AC input, power is 60% of the rated.
- *2 Depending on the frequency, the output voltage will decrease. The rated voltage can be output below 1.4kHz, the maximum output voltage at 2kHz is 250.76Vrms, and the maximum output voltage at 2.4kHz is 208.97Vrms.
- *3 When the output frequency is below 50Hz/60Hz, and the peak current is not exceeded, the maximum CF is 6; under the condition of full current and full power, the maximum CF is *4. When loopSpeed Low is low it can better complied DUT's characteristics; When LoopSpeed is High, the dynamic response time is faster.
- *5 30kW and above models need to use the sense remote measurement mode for testing.
- *6 Dynamic response time test, DC mode, high speed, measured under the condition that the capacitance of DUT is less than 10uF
- *7 When the input frequency is below 50Hz/60Hz, and the peak current is not exceeded, the maximum CF is 5; under the condition of full current and full power, the maximum CF is 3.
- *8 For frequency <150Hz, the minimum current for accuracy test is 1%F.S., for frequency>150Hz, the minimum current for accuracy test is 3%F.S.
- *9 When LoopSpeed is Low, it is more adaptable to the load; when LoopSpeed is Fast, the dynamic response is faster; when the frequency is high, please use Fast mode.
- *10 Test frequency <150Hz, which meets this specification.
- *11 In the rectifier load mode, the setting range of the phase angle is related to CF. The higher the CF, the larger the settable range of the phase angle.

All the above parameters are subject to change without prior notice from ITECH.



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

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