

## **IT8200**

# Regenerative AC/DC Electronic Load



Your Power Testing Solution



## IT8200 Regenerative AC/DC Electronic Load

Adopting advanced SiC technology, IT8200 Series is a regenerative programmable AC/DC electronic load. It is power regenerative, which not only saves electricity and cooling costs for you, but also good for energy saving and environmental protection. AC load mode supports both rectification andnon-rectification, providing CC/CR/CP/CS/CC+CR/CE operating modes. It can simulate multiple circuit topologies under CE mode such as single-phase rectification RLC Circuit and parallel RLC Circuit. IT8200 can be applied to the test of V2G, EVSE, PCS, UPS, inverter, etc.

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IT8200 Series adopt a high power density design, and the power can reach 15kVA in a 3U unit. After parallelconnection, the power can be extended to 960kVA at most. Its LCD touch screen with graphical UI interface can directly define differentwaveforms. Combined with arbitrary waveform editing function and perfect protection function, it is an ideal choice for R&D testing and system construction.

#### FEATURE

- Adopt advanced SiC technology
- High power density, 15kVA in 3U unit, 6kVA in 1U/2U
- Measure up to 16 parameters including Vrms/Arms/Freq/ CF/PF/UTHD/ITHD/±Vpeak.
- Master/Slave parallel, power up to 960kVA
- High efficient energy regeneration
- Voltage 350 VL-N
- Comprehensive working modes selectable: single-phase, three-phase, reverse phase (split phase) . Rated voltage can be extended to 200% under reverse phase (split phase)
- Frequency: 16-500Hz
- Support NORMAL/LIST/SWEEP/Surge&Sag modes
- Built-in various waveforms
- Touch screen, simple UI for easy operation
- Built-in USB/CAN/LAN/Digital IO interface, optional GPIB /Analog&RS232
- DC mode supports nine working modes, including CC, CR,CP, and CV
- Support CANopen\*3、Modbus、LXI、SCPI communication

 AC mode supports CC/CP/CR/CS/CC+CR/CE multiple working modes, CE mode can simulate 14 circuit topologies such as single-phase rectifier RLC and parallel RLC

TECH

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- AC mode supports both rectification and non-rectification modes
- DC mode supports 9 working modes such as CC/CR/CP/CV
- Adjustable crest factor: 1.414 ~ 5.0

- Supports phase shift, ranging from -90 ° to 90.0 ° \*1
- 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
- In three-phase AC mode, two access modes are supported: Y and  $\boldsymbol{\Delta}$
- Comprehensive harmonics measurement and analysis, up to 50th. Built-in IEC61000-3-2/3-12 pre-compliance test standard \*2
- Support the loading and unloading angle control, the full range of 0-359° can be set
- Various protection functions such as Protect auto clear (UV&FE auto Clear), POVP, POCP, UVP, Software watchdog
- \* 1 After the rectification function is enabled, the setting range of phase shift is restricted by the peak factor
- \* 2 Voltage/current harmonic analysis, current harmonic simulation, fundamental wave  $\leq$  60Hz

\* 3 coming soon

## Your Power Testing Solution

IT8200 Regenerative AC/DC Electronic Load



\* Please contact ITECH for high power needs.

IT82165-350-990

\* The above specifications are subject to update without notice.

606V

350V

990A

330A

165kVA 1Φ,3Φ,reversed phase

Touch Screen

37U

#### Your Power Testing Solution IT8200 Regenerative AC/DC Electronic Load

## Regenerative AC/DC electronic load

The IT8200 series are new regenerative AC Electronic Load with 88% energy recovery capability. Whether in AC mode or DC mode, the power generated by the DUT can be fed back to the grid,rather than being dissipated as heat, which protects the environment and save the cost of electricity, HVAC and cooling infrastructure.

#### **Production facility**

24hours/day x 7 working days x 52 weeks

Power (kW)	Electricity saved (appr.USD/year)	CO2 emission reduced (appr.ton/year)
15	17,428	124
90	104,570	745
165	191,712	1,365
960	1,115,412	7,943

#### R&D lab

#### 8hours/day x 5 working days x 52 weeks

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Power (kW)	Electricity saved (appr.USD/year)	CO2 emission reduced (appr.ton/year)
15	4,368	30
90	26,208	177
165	48,048	325
960	279,552	1,891

\* The data is based on :

1. approximate electricity price 0.14USD/kWh for industry facility

- 2. 1kWh power consumption  $\approx$  0.997 CO2 emission
- \* The extra cost of air conditioning is not included.

#### High power density

From 1U/2U/3U single unit to 27U/37U cabinet, various models of IT8200 series can meet the testing needs from 2k to 165kVA. Its voltage can reach 350V. The size of a 3U/15 kVA is only 1/12 of the traditional AC load, which greatly saves the testing space and brings you a high-power testing instrument that can be placed directly on the bench.

\*Optional rack-mounting kit IT-E155A is required for 1U models

#### Master/slave parallel, large capacity free combination

The 3U model of IT8200 can be master-slave paralleled to to reach 960kVA output at most. It can improve the output current and power capacity to meet the requirements of higher power testing. IT8200 comes with synchronous On/Off input and output signals, which ensure the synchronization of paralleling and ensures synchronous current sharing of multiple modules. After paralleling, all functions are retained and there' s no loss of accuracy, making the construction of the power system faster, more flexible, and more economical, either it is a stand-alone test or ATE system.

\*350V 3U models with the same power can be connected in parallel, 350V 1U/2U models with the same power can be connected in parallel

2U

3U

**1U** 



#### Your Power Testing Solution

IT8200 Regenerative AC/DC Electronic Load



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

The IT8200 series has single-phase, three-phase, and reverse-phase output modes, which can be selected through the menu. Under reverse mode, the single-phase 350V input voltage can be increased to 700V with the power down to 2/3 of the original. Under the three-phase mode, you can choose a Y-type or a  $\Delta$ -type connection. The Y-type connection supports the C-phase loss.



single phase

AC



single phase

DC





three phase reverse phase AC



AC

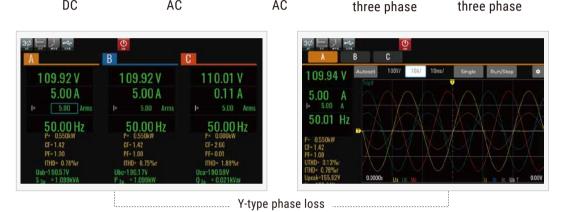




 $\triangle$ -type connection Y-type connection

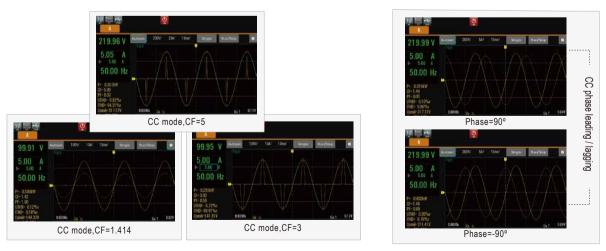


Y-type phase loss

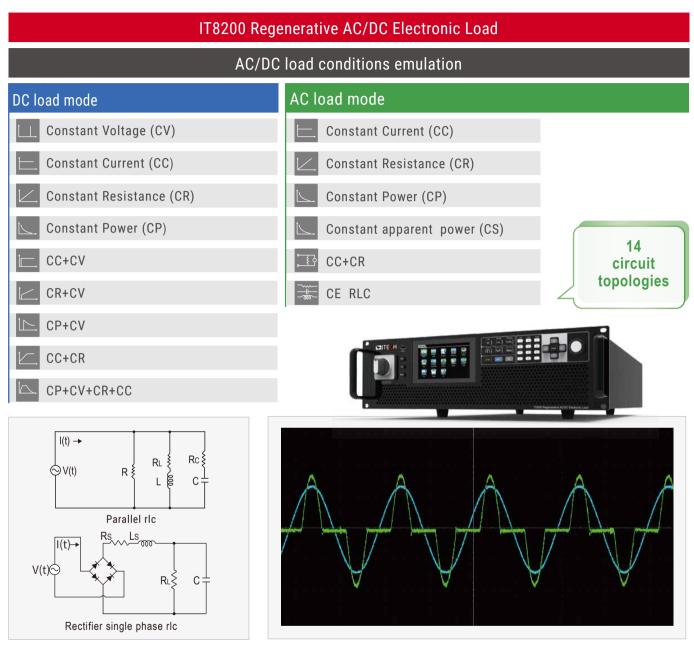


#### CF 1.414-5.0

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).



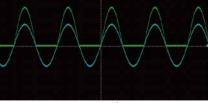
#### Your Power Testing Solution IT8200 Regenerative AC/DC Electronic Load

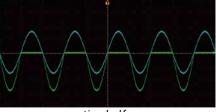


IT8200 AC electronic load can enable the 'Rectified' function in AC mode, so that the load works in the first and third quadrants to ensure that the voltage and current flow always in the same direction. At this time, full wave, positive half wave, or negative half wave can be freely selected.



full wave





positive half wave

negative half wave

### Waveform

#### **Oscilloscope function**

The IT8200 series has built-in digital oscilloscope functions, which can collect time domain signals of voltage and current, phase relationship, and perform waveform triggering, etc. Its sampling rate is as high as 10us, up to 6 oscilloscope curves can be displayed at the same time, and instantaneous analysis can be completed.

Further more, with its data recording function, you can observe the output for a long time, and store the obtained data to an external storage device for secondary analysis. A wide variety of test requirement can be met even without a data acquisition instrument or an oscilloscope.



#### **Data record**

Thanks to the data record function, the IT8200 series can continuously record data for up to 7 hours at the fastest time interval of 100ms, and provides you with a 'trend' graph to check the curve of the entire test process. Up to 6 curves can be displayed simultaneously. In addition, you can also observe the precise data at a certain moment in the trend graph by sliding on the front panel. This function helps to analyze the abnormality of DUT during long-term testing, inflection point under loading, etc. Test data can be exported by a USB for further analysis.

₩ 10 10 A	ŭ		<b>⊕</b> <del>x</del>				
222.56	٧	Stop	Clean	More	Hold-On	Auto	0
sv= 0.00	Vrms	The states	0.5 A/Dir	0.1 KW/Dia		e 100 1/Dir 132'S	
0.31	A						
50.00 sy= 50.00 P= 0.000KW CF= 1.59 PF= 0.00 lthd= 1.56%r Uthd= 10.76% Ipeak= 1.71A	Hz Hz	'they want	Wind	Mu	N N Ma	MM	1

#### 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. In the meantime, IT8200 AC electronic load also has built-in IEC 61000-3-2 / 61000-3-12 regulations, which can be recalled directly for pre-compliance testing.



#### **Built-in multiple waveforms**

IT8200 has built-in sine, triangle, square, trapezoidal and clipped-sine wave. These waveforms can be recalled through the menu and displayed on the screen. Further more, the complex testing requirement can be met by further editing the relevant parameters.

Waveform		Waveform		Waveform	
Sine	Woodfarm Son, Parameters and phase thirt, and Crast Stature (1934-52)	Sine	<ul> <li>Waveform: Square, Parameters: an, phase A and duty cycle-(0-150%).</li> </ul>	Sine	Weerform Triangle, Parameters an, phase shift, and peak angle-{0-180%;}.0%s/keli-Saw agen, 180%s-Saw away
Square	1.414	Square	70.00 %	Square	90.00 *
Triangle	$\sim$	Triangle	j	Triangle	
Trapezoid	Select	Trapezoid	Select	Trapezoid	Select
Clipped-sine	Waveform	<u>199</u> 7 ( <u>4</u> .20	Waveform		Esc
	Sine	<ul> <li>Wavefurm: Trapezsid, Paremeters: im, plane shift and coeff (10-25%), Diric-Square, 25%-Friengle.</li> </ul>	Sine	Hipselterin: Object inter, Parameters: parterintype % + the Unique interpy / the hand compy tange UE 52%4.	
	Square	10.00 %	Square	10.00 %	
	Triangle		Triangle		
	Trapezoid	Select	Trapezoid	Select	
	Clipped-sine	Esc	Clipped-sine	Esc	

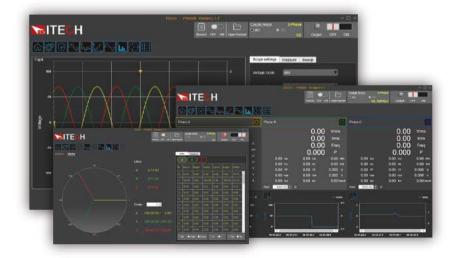
#### **Harmonic simulation**

Harmonic test is one of the important test items for EMC immunity. IT8200 series has built-in 30 THD waveforms for quick recall. Thanks to the high-speed DSP technology, IT8200 series can also customize THD waveform. By setting the amplitude and phase, it can simulate up to 50th order harmonics (fundamental frequency is 50Hz or 60Hz), forming a periodic distortion waveform.



#### Intuitive software interface

IT8200 series provides free PC software PV8200 with an intuitive GUI. Meanwhile, it allows remote control, even the ATE models without display screen can be programmed, communicated and monitored.



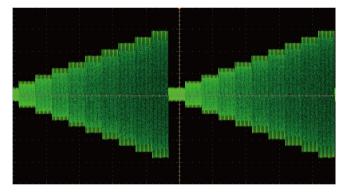
#### LIST/SWEEP/Surge&Sag

IT8200 series supports NORMAL,LIST and SWEEP mode. Each mode can work with Surge&Sag function.

In LIST mode, you can edit multiple steps and any waveform can be selected for each step. One List file can contain maximum 200 steps. Parameters such as frequency, amplitude, running time, and rising slope of each waveform can be edited.

ð 는 😽		<b>O</b>				More Current AC		
10.00 V	Untitled	l-01.csv Trig source:	Manual	1	Run	lac 5.00 A	5100 750.0000 A/ms	
.32 A	No	ACrms A	Slew A/ms	Time S	Control	Current DC	5lem 750.0000 A/ms	
10.00 A	1	10.00	750.0000	1.0000	Time		Tale 730.0000 Amis	- ``
0.00 Hz	2	10.00	750.0000	1.0000	Time	Start Phase		
0.000kW	3	10.00	750.0000	1.0000	Time	Wave	<del>.</del>	
1.87 0.01	4	10.00	750.0000	1.0000	Time	Wave Sine	Deal. 1,414	eliate 0.0 °
D= 0.12%r ]= 1.23%r ak=162.07V	Ope	n New	Edit		lelete	Step jump		Shint 0.0

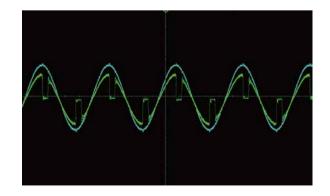
The SWEEP function helps to test the efficiency of the switching power supply in AC mode, grab the voltage and frequency of the maximum power point, and make the setting parameters change step by step.



100 07 1	Const mode	End	_
09.87 V	CC	Off	
7.46 A	Start Level	Stop Level	Step Level
= 10.00 A	1.00 A	10.00 A	1.00 A
50.00 Hz	Mode	Step time	Repeat count
	Time	0.500 S	
= 0.818kW F= 1.53	Waveform	Crest factor	Phase shift
PF-1.00	Sine	1.414	0,0 °
THD= 0.11%r HD= 0.35%r peak=157.51V	R	up 🚺	Stop

Surge&Sag works in each mode of NORMAL/LIST/SWEEP. Use trigger or cycle to control the drop of surge and sag, set the starting angle of the drop, and support waveform smoothing, symmetrical and asymmetrical waveform operations. Waveforms can be quickly created to reproduce waveform distortions or transient events such as spikes, dropouts or any other anomalies.

	Mode	Action	Trig source
34.35 V	Trigger	Immediately	Manual
0.000 A	Start angle	Control mode	Angle width
I= 0.00 A	90.0 °	Angle	30.0 °
50.00 Hz	Symmetry	Repeat count	
	On		
P= 0.000KW CF= 1.00	Value select	Setting	
PF= 0.00	Setting	0.00 A	
R= 0.000Ω S= 0.000KVA Q= 0.000KVar	Ri	m I	Stop



#### Your Power Testing Solution IT8200 Regenerative AC/DC Electronic Load

		<b>IT82</b> 1	5-350-90						
			rameter						
_	Wiring connection		e + ground(PE)						
	Line voltage	RMS	(200 ~ 220 V) ±10% *1 (380 ~ 480V) ±10%						
AC Input	Line current	RMS	< 34A						
o input	Apparent power	<1	7kVA						
	Frequency	45 ~	~ 65Hz						
	Power factor	typ	0.98						
		Input							
	In most we like me	VLN	30 ~ 350V						
	Input voltage	VLL	51.96 ~ 606V(3phase)/30 ~ 700V(reverse)						
	Input frequency	16 ~	500Hz						
		RMS	90A(1phase)/30A(3phase/reverse)						
	Input current	Peak	270A(1phase)/90A(3phase/reverse)						
	input ourient	Crest Factor *2	5						
		Per Phase	5kVA						
	Input power	Max. Power	10kVA(reverse phase)/15kVA(1phase/3phase)						
			de setting						
	Current range	RMS	90A(1phase)/30A(3phase/reverse)						
	Resolution	0.01A							
	Accuracy*3	<0.1% + 0.2% F.S.(DC,16Hz ~ 150Hz)/<0.2% + 0.3% F.S.(150.1Hz ~ 500Hz *4 )							
		CP mode setting							
	_	Max. Power	15kW(1phase/3phase)/10kW(reverse phase)						
	Range	Per Phase	5kW(3phase)						
	Resolution	0.001kW							
	Accuracy	<0.4% +0.4% F.S.	.(DC,16Hz~500Hz)						
		CS mod	de setting						
		Max. Power	15kVA(1phase/3phase)/10kVA(reverse phase)						
	Range	Per Phase	5kVA(3phase)						
C mode	Resolution	0.0	01kVA						
	Accuracy	<0.4% +0.4% F.S.(DC,16Hz ~ 500Hz)							
		CR mode setting							
	Range	0.334~388.880(1phase) / 1.002~1166.60 (3phase/reverse phase)							
	Resolution	0.001Ω							
	Accuracy*5	0.4%+0.4%F.S.							
		Circuit Emulation(CE)-Parallel rlc							
	R Range	0.334~388.88Ω(1phase) / 1.002	$2 \sim$ 1166.6Ω(3phase/reverse phase)						
	L Range	1 ~ 2000mH(1phase)/3 ~ 2000mH(	(reverse phase)/3 ~ 2000mH(3phase)						
	C Range	0.001 ~ 9900uF(1phase)/0.001 ~ 3300uF(reverse phase)/0.001 ~ 3300uF(3phase)							
	C Kallye	0.001 ~ 99000F(Tphase)/0.001 ~ 33000	0.334~388.88Q(1phase) / 1.002~1166.6Q(3phase/reverse phase)						
	Rc Range								
		0.334~388.88Ω(1phase) / 1.002							
	Rc Range	0.334~388.88Ω(1phase) / 1.002 0.334~388.88Ω(1phase) / 1.002	$2 \sim 1166.6 \Omega$ (3phase/reverse phase)						
	Rc Range RL Range	0.334 ~ 388.88Ω(1phase) / 1.002 0.334 ~ 388.88Ω(1phase) / 1.002 0 ~ 272.7A(1phase)/0 ~ 90.90A(r	2~1166.6Ω(3phase/reverse phase) 2~1166.6Ω(3phase/reverse phase) reverse phase)/0~ 90.90A(3phase)						
	Rc Range RL Range IL Range	0.334 ~ 388.88Ω(1phase) / 1.002 0.334 ~ 388.88Ω(1phase) / 1.002 0 ~ 272.7A(1phase)/0 ~ 90.90A(r 272.7A(1phase)/90.9A(re	$2 \sim$ 1166.6Ω(3phase/reverse phase) $2 \sim$ 1166.6Ω(3phase/reverse phase)						
	Rc Range RL Range IL Range	0.334 ~ 388.880(1phase) / 1.002 0.334 ~ 388.880(1phase) / 1.002 0 ~ 272.7A(1phase)/0 ~ 90.90A(re 272.7A(1phase)/90.9A(re Circuit Emulation(CE	2~1166.6Ω(3phase/reverse phase) 2~1166.6Ω(3phase/reverse phase) reverse phase)/0~90.90A(3phase) verse phase)/90.9A(3phase)						
	Rc RangeRL RangeIL RangeMax peak currentR Range	0.334 ~ 388.88Ω(1phase) / 1.002 0.334 ~ 388.88Ω(1phase) / 1.002 0 ~ 272.7A(1phase)/0 ~ 90.90A(re 272.7A(1phase)/90.9A(re Circuit Emulation(CE 0.334 ~ 388.88Ω(1phase) / 1.002	2~1166.6Q(3phase/reverse phase) 2~1166.6Q(3phase/reverse phase) reverse phase)/0 ~ 90.90A(3phase) verse phase)/90.9A(3phase) )-Rectifier single phase rlc						
	Rc RangeRL RangeIL RangeMax peak currentR RangeL Range	0.334 ~ 388.88Ω(1phase) / 1.002 0.334 ~ 388.88Ω(1phase) / 1.002 0 ~ 272.7A(1phase)/0 ~ 90.90A(re 272.7A(1phase)/90.9A(re Circuit Emulation(CE 0.334 ~ 388.88Ω(1phase) / 1.002 0.1 ~ 2000mH(1phase)/0.3 ~ 2000mH	2~1166.6Q(3phase/reverse phase) 2~1166.6Q(3phase/reverse phase) reverse phase)/0~90.90A(3phase) verse phase)/90.9A(3phase) )-Rectifier single phase rlc 2~1166.6Q(3phase/reverse phase) H(reverse phase)/0.3~2000mH(3phase)						
	Rc RangeRL RangeIL RangeMax peak currentR RangeL RangeC Range	0.334 ~ 388.88Ω(1phase) / 1.002 0.334 ~ 388.88Ω(1phase) / 1.002 0 ~ 272.7A(1phase)/0 ~ 90.90A(re Circuit Emulation(CE 0.334 ~ 388.88Ω(1phase) / 1.002 0.1 ~ 2000mH(1phase)/0.3 ~ 2000mH 0.001 ~ 9900uF(1phase)/0.001 ~ 3300u	2~1166.6Q(3phase/reverse phase) 2~1166.6Q(3phase/reverse phase) reverse phase)/0~90.90A(3phase) verse phase)/90.9A(3phase) )-Rectifier single phase rlc 2~1166.6Q(3phase/reverse phase) 4(reverse phase)/0.3~2000mH(3phase) F(reverse phase)/0.001~3300uF(3phase)						
	Rc RangeRL RangeIL RangeMax peak currentRangeL RangeC RangeRS Range	0.334 ~ 388.88Ω(1phase) / 1.002 0.334 ~ 388.88Ω(1phase) / 1.002 0 ~ 272.7A(1phase)/0 ~ 90.90A(re- Circuit Emulation(CE 0.334 ~ 388.88Ω(1phase) / 1.002 0.1 ~ 2000mH(1phase)/0.3 ~ 2000mH 0.001 ~ 9900uF(1phase)/0.001 ~ 3300u 0 ~ 388.88Ω(1phase) / 0 ~ 1	2~1166.6Ω(3phase/reverse phase) 2~1166.6Ω(3phase/reverse phase) reverse phase)/0~90.90A(3phase) verse phase)/90.9A(3phase) )-Rectifier single phase rlc 2~1166.6Ω(3phase/reverse phase) H(reverse phase)/0.3~2000mH(3phase) F(reverse phase)/0.001~3300uF(3phase) 166.6Ω(3phase/reverse phase)						
	Rc RangeRL RangeIL RangeMax peak currentR RangeL RangeC Range	0.334 ~ 388.88Ω(1phase) / 1.002 0.334 ~ 388.88Ω(1phase) / 1.002 0 ~ 272.7A(1phase)/0 ~ 90.90A(re- Circuit Emulation(CE 0.334 ~ 388.88Ω(1phase) / 1.002 0.1 ~ 2000mH(1phase)/0.3 ~ 2000mH 0.001 ~ 9900uF(1phase)/0.001 ~ 3300u 0 ~ 388.88Ω(1phase) / 0 ~ 1 0 ~ 499.924V(1phase)/0 ~ 499.924V	2~1166.6Q(3phase/reverse phase) 2~1166.6Q(3phase/reverse phase) reverse phase)/0~90.90A(3phase) verse phase)/90.9A(3phase) )-Rectifier single phase rlc 2~1166.6Q(3phase/reverse phase) 4(reverse phase)/0.3~2000mH(3phase) F(reverse phase)/0.001~3300uF(3phase)						

\* 1 (200~220) ±10%, models of 12Kw and above output 60% of rated power.

\* 2 Under the input frequency of 50Hz/60Hz, the maximum CF is 5 without exceeding the peak current; under the condition of full current and full power, the maximum CF is 3.

\* 3 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.

\* 4 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, use Fast mode.

\* 5 Under condition: I >10%F.S., F<150Hz.

\* The above specifications are subject to update without notice.



		Phase angle setting				
	-	-82.8°~+82.8°(Rectified Mode *6)				
	Range	-90°~+90°				
AC mode	Resolution	0.01°				
to mode	Accuracy*7	1% F.S.				
		CF setting				
	Range	1.414 ~ 5.0				
	Resolution	0.001				
DC mode	Voltage	30 ~ 499V				
	Current	30 ~ 499V(1phase)/30~998V(reverse phase)				
	Current rising time	$0 \sim 90A(1 \text{ phase})/0 \sim 30A(\text{reverse phase})$				
		Measure Parameter				
	Range	0 ~ 350Vrms				
Voltage RMS	Resolution	0.01				
	Accuracy	< 0.1%+0.1% F.S.(DC,16Hz ~ 500Hz)				
	Range	0 ~ 90A				
Current RMS	Resolution	0.01A				
	Accuracy	< 0.1% + 0.2% F.S.(DC,16Hz~150Hz)/< 0.2% + 0.3% F.S.(150.1Hz ~ 500Hz)				
	Range	0 ~ 270A				
Peak current	Resolution	0.1A				
	Accuracy	< 0.3% + 0.6% F.S.(16Hz ~ 500Hz)				
nput active	Range	0 ~ 15kW				
ower	Resolution	0.001kW				
	Accuracy	< 0.4% +0.4% F.S.				
nput reactive	Range	0 ~ 15kVAR				
ower	Resolution	0.001kVAR				
	Accuracy	< 0.4% +0.4% F.S.				
nput	Range	0 ~ 15KVA				
apparent	Resolution	0.001KVA				
ower	Accuracy	< 0.4% +0.4% F.S.				
CF	Range	1~5				
JI	Resolution	0.01				
	Range	0.1 ~ 1				
PF	Resolution	0.01				
	Accuracy	1%F.S.				
Harmonic	Max.harmonic analysis	up to 50orders(50/60Hz)				
		Power regeneration				
Regenerative Pmax		15kVA				
Output current	THD	< 5%				
ffiniance	1 m	Other				
Efficiency	typ	91% CVD COD COD COD COD COD				
Protection		OVP, OCP, OPP, OTP, FAN, ECP				
Dimension		483.00mm (W)*151.3mm (H)*777.50mm (D) (841.6mm cover and holder included)				
Weight		42kg				
Working temper		0 °C ~50 °C				
Programming re	esponse time	2ms				

\* 6 In the rectifier load mode, the setting range of the phase angle is related to CF. The larger the CF, the larger the settable range of the phase angle

\* 7 ≤150Hz, 1%F.S., >150Hz, 5%F.S

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

\* The above specifications are subject to update without notice





ITECH ELECTRONICS

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