

IT7800

High Power Programmable AC Power Supply (HV)





IT7800 high power programmable AC power supply

High Voltage Series Voltage up to 700VL-N, even reach 1050VL-N

The IT7800 series is a new generation of high power programmable AC power supply featuring user-friendly programming options, a novel touch interface, and rich waveform analysis capabilities. The high-voltage series is available at voltages as high as 700 VL-N and even fulfills 1050 VL-N test standards. By paralleling them, the high voltage series may be easily enlarged to 900 kVA.

The IT7800 series is equipped with an LCD touch screen design with an intuitive and easy-to-use UI interface allowing users to quickly and smoothly use the operation. Built-in all-round power meter and arbitrary waveform generator, which can simulate harmonics and various arbitrary waveform outputs; programmable output impedance and a full range of measurement functions make the IT7800 series widely used in new energy, power electronics, scientific research institutions and other fields of research and development, production, quality control and other stages.

FEATURE

Voltages up to 700 VL-N, even 1050 VL-N

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N-A

- Harmonic simulation and analysis functions up to 50th *1
- Output frequency: 16-2400 Hz, voltage and frequency output variation rate adjustable
- Built-in AC power meter
- AC/AC+DC output mode possible
- Three-phase output
- Harmonic and interharmonic waveform synthesis *2
- Programmable output impedance
- Touch screen design, simple UI interface
- Arbitrary waveform output can be simulated, and CSV file import waveform is supported.

- Built-in rich waveform database
- List mode analog utility reproduction function, realizing the instantaneous power interruption simulation function
- Output start/stop phase angle can be set from 0 to 360°.
- Surge & Sag function*2
- Relay Ctrl relay control output function for electrical isolation between the object to be measured and the source.
- Built-in USB/CAN/LAN/digital IO interface, optional GPIB/RS232 interface.
- Built-in IEC61000-4-11/4-13/4-14/4-28 test waveforms*2
 - *1 Voltage/current harmonic analysis, voltage harmonic simulation *2 Coming soon

Your Power Testing Solution IT7800 High Power Programmable AC Power Supply (HV)

Applications

New Energy		Power electronics			Appliance	
OBC, AC/DC charging pile		frequency converter,	UPS, AC motor		air conditioner, n refrigerator, was	nicrowave oven, hing machine
Civil aviation		Research institute,	lab, testing organizati	ons	Medical eq	uipments
airborne equipment, airport g	round facilities	AC-DC power adapte	r, EMC test		CT, MRI, life dete	ector etc
	1 A	Civil aviation			Ne	ew energy
Home appliances				-		
	esearch astitutes				1000	5
Model		range Vac	Current range Aac	Power	Phase	Height
	V L-N	V L-L	Arms(3Φ)	Pac		
IT7890-700-90	700V	1200V	90A	90kVA	3Φ	27U
IT78180-700-180	700V	1200V	180A	180kVA	3Φ	27U*2
IT78270-700-270	700V	1200V	270A	270kVA	3Φ	27U*3
IT78360-700-360	7001/	1200\/	3604	3601/1	3. 0	0711*4

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IT7890-700-90	700V	1200V	90A	90kVA	3Ф	27U
IT78180-700-180	700V	1200V	180A	180kVA	3Ф	27U*2
IT78270-700-270	700V	1200V	270A	270kVA	3Ф	27U*3
IT78360-700-360	700V	1200V	360A	360kVA	3Ф	27U*4
IT78450-700-450	700V	1200V	450A	450kVA	3Ф	27U*5
IT78540-700-540	700V	1200V	540A	540kVA	3Ф	27U*6
IT78630-700-630	700V	1200V	630A	630kVA	3Ф	27U*7
IT78720-700-720	700V	1200V	720A	720kVA	3Ф	27U*8
IT78810-700-810	700V	1200V	810A	810kVA	3Ф	27U*9
IT78900-700-900	700V	1200V	900A	900kVA	3Ф	27U*10
IT78135-1050-90	1050V	1818V	90A	135kVA	3Ф	37U
IT78270-1050-180	1050V	1818V	180A	270kVA	3Ф	37U*2
IT78405-1050-270	1050V	1818V	270A	405kVA	3Ф	37U*3
IT78540-1050-360	1050V	1818V	360A	540kVA	3Ф	37U*4
IT78675-1050-450	1050V	1818V	450A	675kVA	3Ф	37U*5
IT78810-1050-540	1050V	1818V	540A	810kVA	3Ф	37U*6

 \star For higher power products, please contact ITECH

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

Your Power Testing Solution

IT7800 High Power Programmable AC Power Supply (HV)

Easy-to-operate touch design

The IT7800 series is equipped with a new touch screen design with a simple and intuitive UI interface.

Combined with the keyboard knob design allows users to make direct and quick selections.

Users can choose different interface display styles, customize the type of parameters and display position of the page.

The user can choose different interface display styles, customize the type of parameters and display position of the page, and humanized settings can meet a variety of measurement needs in the test.

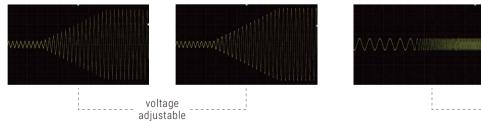
The screen can display real-time voltage and current curves, up to 6 oscilloscope data lines, users can instantly analyze without an oscilloscope and save in time.

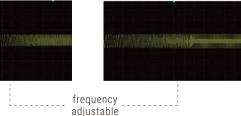




Output frequency up to 2.4kHZ, voltage or frequency output rate of change adjustable

The IT7800 series output frequency is adjustable from 16-2400Hz, which allows the user to set the rate of change of voltage or frequency output, so that the voltage or frequency can reach the set value in a regular and gradual manner, which can be used to verify the operating range of the product more accurately, and also reduce the inrush current when the object to be tested is switched on.





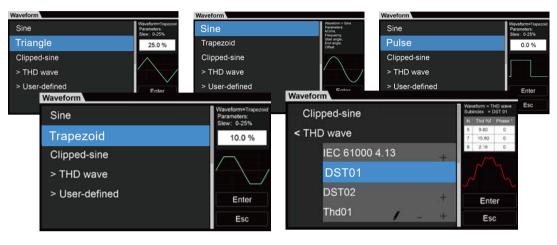
List Mode

The IT7800 series provides users with a simple and easy way to realize gradual or continuous changes in output parameters through the LIST/SWEEP/SURGE&SAG modes. The amplitude, frequency, phase, waveform and other parameters of the output voltage can also be output through the control of internal triggers or external triggers within the instrument, so that it can simulate the characteristics of various kinds of power supply with instantaneous power outage, sudden wave, and slow rise.



Built-in Waveform Database

The IT7800 series has built-in many different types of waveforms, such as triangle, sine, square, and sawtooth waveforms, which can be recalled through the menu and displayed on the LCD screen.

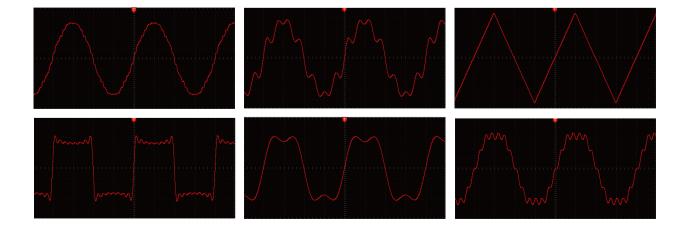


Users can also edit waveforms through the interface's customization mode to mimic and reproduce the real power waveforms at the scene of the problem.



Profi	le: self de	fined01.csv		
Total points Index 0, co	(half period): 512. rrespondence 0 ° correspondence 180°	Origin Symmetry	_	Open
Index	Normalization (-1,1)	X = 0	1.0 Value = 0	
0	0.30			
128	0.6	100* 135*90*		
256	0.75			

The IT7800 series has 30 built-in harmonic distortion waveforms.



Your Power Testing Solution IT7800 High Power Programmable AC Power Supply (HV)

		IT	7890-700-90			
		Input parameter				
	Wiring connection	3 phase 3wire + ground(PE)				
	Line voltage	RMS	(200~220V)±10% *1 (380~480V)±10%			
AC input	Line current	RMS	<200A			
	Apparent power		< 104kVA			
	Frequency range		45~65Hz			
	PF	typ	0.98			
	FI	typ 0.98 Output parameter				
		VLN*2	0~700V			
	Output voltage	VLIN-2 VLL	0~1/00V 0~1212V			
		RMS (3phase)	90A			
	Output current	Peak(3phase)	270A			
	Output power		90kVA			
	Output power	Max. Power (3phase)				
	Pange	Voltage setting				
	Range Resolution	0~700V(3phase) 0.01V				
	Accuracy	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.01V 1%+0.2% F.S.			
AC output	Accuracy		1%+0.2% F.S. irrent setting			
	Denne	RMS	90A			
	Range Resolution	RIVIO				
		0.01A				
	Accuracy	<0.2% + 0.3% F.S.				
	Set range	Frequency				
	Set resolution	16~100Hz 0.01Hz				
	Set accuracy	0.01%				
	harmonic waveform	50/60Hz	up to 50 orders			
		30/00H2	Phase			
	Set range		0~360°			
	Set resolution	0~300				
	octreoolution	Va	Itage setting			
	Line regulation	<0.05% F.S.				
	Load regulation *2	<0.03% F.S. <0.1% + 0.1% F.S.				
Voltage stability		<1%				
• •	Voltage ripple	RMS	< 1.2V			
	Dynamic response	typ	200µs			
Votage slew rate		≥2 V/µs with full-sca	ale programmed voltage step			
Output isolation			750Vac			
		Measur	ement parameter			
/oltage RMS	Resolution		0.01V			
vonaye Rivio	Accuracy	<0.1%+0.2% F.S.				
Current RMS	Resolution	0.01A				
	Accuracy	<0.2% + 0.3% F.S.				
Output power	Resolution		0.001kW			
	Accuracy		4% +0.6% F.S.			
Harmonic measurement	Max.	50/60Hz	up to 50 orders			
fficiency			Other			
Efficiency		88% (typ)				
Protection	mont	OVP, OCP, OPP, OTP, FAN, ECP, Sense				
Working environi		0°C-50°C				
Program respons	se unne	2ms 20V				
Snese			204			

*1 (200~220) ±10%, 60% of rated power output.

*2 Cabinets need to be tested in sense remote measurement mode.

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Your Power Testing Solution IT7800 High Power Programmable AC Power Supply (HV)

Intractor (Bigst parameter) Wining connection 3 phase 3wire + ground(PE) Line voltage RMS (200~-220') ±10% *1 (380~480') ±10% AC input Aparent power < 157/VA Apparent power < 157/VA < 99A PF typ 0.039 B Uput voltage VLM 0~1050V Output voltage VLL 0~1050V Output parameter 0040 00A Output outrent PRMS (sphase) 270A Output power Max. Power (3phase) 270A Output power Max. Power (3phase) 270A Range 0~1050V(Sphase) 8840 Range 0~1050V(Sphase) 270A Range 0.1V Accuracy Accuracy <0.18+0.2% F.S. Range RMS 0.01 Range Range 90A Resolution 0.01% 1 Accuracy <0.01% A Accuracy Set range 16~10010/2 16			1770105			
Wing connection 3 phase 3 wire + ground(PE) Line votage RMS (200~220Y) ±10% +1 (380~480Y) ±10% AC input PRMS - 259A Aparent power - 457-VA - 259A Frequency range - 457-VA - 259A Frequency range - 457-VA - 457-VA Frequency range VLN*2 0-1050V Output votage VLN*2 0-1050V Output rootage RMS (3phase) 90A Output power Max. Power (3phase) 90A Output power Max. Power (3phase) 90A Accuracy - 0150V (Sphase) 135VA Accuracy - 0150V (Sphase) 90A Resolution - 014 - 014 Accuracy - 015V - 015V Accuracy - 015V (Sphase) - 015V Accuracy - 015V - 015V Set			IT78135-1050-90			
AC input Ine current RMS (200~220V) ±10% ±1 (380~480V) ±10% AC input Ine current RMS < < 299A Apparent power < < 157XVA Frequency range 0 45 VL 0.98 0.98 VL 0~1050V 0.90 Output voltage VLN*2 0~1050V 0.90 Output current RMS (3phase) 90A 90A Output power Max. Power (3phase) 770A 0.15VVA Actorage 0.15VVA 0.15VVA Actorage 0.11VVA						
AC input Line current Apparent power Frequency range C 299A Apparent power Frequency range 45~65H2 0 PF typ 0.98 Utityt*2 0~1050V 0 Output voltage VLL 0~1181V Output voltage VLL 0~1181V Output outrent Pepak(3phase) 90A Output power Max. Power (3phase) 135XVA Range 0~1050V(3phase) 270A Output power Max. Power (3phase) 135XVA Range 0~1050V(3phase) 33XVA Range 0~1050V(3phase) 135XVA Range 0.01V Accuracy <0.13×0.25 F.S. Voltage setting 90A 00A 90A Resolution 0.01A 100X Accuracy <0.25 F.S. Voltage setting 0.01A 100X Set resolution 0.01% up to 50 orders Frequency Voltage setting 0.01% </th <th></th> <th></th> <th></th> <th></th>						
AC input Apparent power <15%VA Frequency range PF 1yp 0.98 Output voltage VLN*2 0~1050V Output current VLN*2 0~1050V Output current Peak(3phase) 90A Output power Max. Power (3phase) 90A Range 0~1050V/3phase) 35KVA Range 0~1050V/3phase) 0.01 Accuracy <0.1%+0.2% F.S. 90A Accuracy 0.01A 90A Accuracy 0.01A 90A Set range Range 0.01 Set range 0.01% up to 50 orders Set range 0.01% up to 50 orders Set range 0.01% 0.01% Coaligned intime 0.01% Voltage setting 0.01% 0.01% Trequency 0.01% 0.01% Trequency 0.01% 0.01% Namonic waveform 0.01% 0.01% Set range<						
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AC output Output voltage VLN*2 0~1050V Output voltage VLN*2 0~1050V 0/1050V Output current Peak(3phase) 90A 90A Output power Max. Power (3phase) 270A 35kVA Output power Max. Power (3phase) 135kVA 35kVA Range 0~1050V(3phase) 8 8 Range 0 0.1V Accuracy <0.1%+0.2% F.S. Accuracy <0.1%+0.2% F.S. 90A 90A Range RMS 90A 90A Resolution 0.01A Accuracy <0.2% F.S. Set range 16~100Hz Set range 16~100Hz Set range 0.01% 1 Immonic waveform 50/60Hz 0.1% Voltage stainty THD <0.1% F.S. Voltage stainty THD <0.1% F.S. Voltage stainty THD <0.1% F.S. Voltage stainty THD <1.8V Voltage stainge <1.18V 200µs				45~65Hz		
Name VLM*2 D~1050V Output voltage VLM 0~1018V Output current RMS (3phase) 90A Output power Max. Power (3phase) 90A Output power Max. Power (3phase) 135kVA Range 0~1050V(3phase) 8 Range 0~1050V(3phase) 8 Range 0~1050V(3phase) 90A Range 0~1050V(3phase) 90A Range 0~1050V(3phase) 90A Range 0.1V 4 Accuracy <0.1%+0.2% F.S. 90A Range RMS 90A Quitput power 0.01A 90A Accuracy <0.02% F.0.2% F.S. 90A Set range 0.01A 90A Set resolution 0.01Hz 90A Set coursery 0.01% 90A harmonic waveform 50/60Hz up to 50 orders Set range 0.05% F.S. 1001% Load regulation *2 <0.5% F.S.		PF				
AC output Output vortage VLL 0~1818V Output current RNS (3phase) 90A Output power Peak(3phase) 270A Output power Max. Power (3phase) 270A Range 0~1050V(5phase) 35kVA Accuracy 0~1050V(5phase) Accuracy 0.11× Accuracy 0.01× Accuracy 0.01× Accuracy 0.01× Accuracy 0.01× Accuracy 0.01× Set range 16~100Hz Set range 0.01× Set			Output parameter			
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Vulput current Peak(3phase) 270A Output power Max. Power (3phase) 135kVA Accuracy Voltage setup Resolution 0 Voltage setup Accuracy 0.155/V(3phase) 90A Resolution 0.15-V 90A Resolution 0.01-V 90A Resolution 0.01-V 90A Resolution 0.01-V 90A Resolution 0.01-V 90A Set concare 90A 90A Set concare 0.01-V 90A Set concare 0.01-V 90A Set concare 0.01-V 90A Set concare 0.01-V 90A Voltage setuition SoloGOHZ up to 50 orders Set resolution SoloGOHZ up to 50 orders Set resolution SoloGOHZ up to 50 orders Set resolution SoloGOHZ 10.1-V Voltage regulation *2 SoloGOHZ 10.1-V Voltage regulation *2 SoloGOHZ 3.1-S <td></td> <td>output voltage</td> <td>VLL</td> <td>0~1818V</td>		output voltage	VLL	0~1818V		
Voltage setting 2/0A Output power Max. Power (3phase) 135kVA Range 00/10050/(3phase) Resolution 0.1/ Accouracy <0.1%+0.2%, F.S. Range 00.1/ Range 00.1%+0.2%, F.S. Range 90A Resolution 0.1/ Accuracy 00.1% Set range 90A Set range 0.01// Set range 0.01/// Set range 0.01//// Set range 0.01//////// Set range 0.01/////////// Set range 0.00//////// Set range 0.00////////////// Set range 0.00///////////// Set range 0.00//////////////////////////////////		0	RMS (3phase)	90A		
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Set range Frequency Set range 16~100Hz Set resolution 0.01Hz Set accuracy 0.01% harmonic waveform 50/60Hz up to 50 orders Phase Set range 0.01° Set resolution 0.01° 0.01° Set resolution 0.01° 0.01° Line regulation <0.05% F.S. 0.00% Load regulation *2 <0.05% F.S. Load regulation <0.05% F.S. Voltage ripple RMS <1.8V Dynamic response t/p 200µs Votage slew rate >2 V/µs with full-scale programmed voltage step Output isolation 1100Vac		Accuracy				
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Set resolution 0.01° Voltage setting Line regulation <0.05% F.S. Load regulation *2 <0.05% F.S. Voltage stability THD Voltage ripple RMS Dynamic response typ Voltage slew rate ≥2 V/µs with full-scale programmed voltage step Output isolation 1100Vac		Set range				
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Line regulation <0.05% F.S. Load regulation*2 <0.1% + 0.1% F.S. THD <1% Voltage ripple RMS <1.8V Dynamic response typ 200µs Votage slew rate <2 V/µs with full-scale programmed voltage step Output isolation 1100Vac						
Voltage stability Load regulation *2 Voltage stability THD Voltage ripple RMS Dynamic response typ Votage slew rate ≥2 V/µs with full-scale programmed voltage step Output isolation 1100Vac		Line regulation				
Voltage stability THD <1% Voltage ripple RMS <1.8V Dynamic response typ 200µs Votage slew rate ≥2 V/µs with full-scale programmed voltage step Output isolation 1100Vac						
Voltage ripple RMS < 1.8V	Voltage stability					
bynamic response typ 200µs Votage slew rate ≥2 V/µs with full-scale programmed voltage step 200µs Output isolation 1100Vac 1100Vac	5 ,		RMS	< 1.8V		
Votage slew rate ≥2 V/µs with full-scale programmed voltage step Output isolation 1100Vac						
Output isolation 1100Vac	Votage slew rate		≥2 V/µs with full-scale pr			
Measurement parameter	Output isolation					
			Measureme	nt parameter		
Resolution 0.1V		Resolution	0.	IV		
Voltage RMS Contract	√oltage RMS					
Resolution 0.01A	Current DMC		0.0	1A		
Accuracy <0.2% + 0.3% F.S.	Current RMS	Accuracy	<0.2% +	0.3% F.S.		
Resolution 0.1kW	0		0.1	kW		
Output power <a>(-0.4% +0.6% F.S.)		Accuracy	<0.4% +0.6% F.S.			
Harmonic measurement Max. 50/60Hz up to 50 orders	Harmonic measurement	Max.				
Other						
Efficiency 88% (typ)	Efficiency					
Protection OVP, OCP, OPP, OTP, FAN, ECP, Sense	Protection					
Working environment 0°C-50°C	Working environ	ment	0°C-50°C			
Program response time 2ms	Program respons	se time				
Snese 20V	Snese		2	VO		

*1 ($200 \sim 220$) ±10%, 60% of rated power output.

*2 Cabinets need to be tested in sense remote measurement mode.

* The above specifications are subject to change without notice.



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

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