# HY-PLMSU Series

### Linear Programmable AC Medium Frequency Power Supply

Hangyu Power System (Shanghai) Co., LTD



















# HY-PLMSU Series Linear Programmable AC Medium Frequency Power Supply



High Power High Precision High Reliability

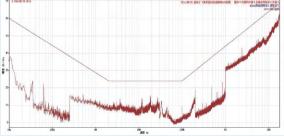




### **Application Field**

- Aviation military
- Testing laboratory
- Electric machine
- Electronic parts
- Nuclear magnetic experiment test
- Darkroom experiment
- EMC test
- Military parts maintenance
- Military testing and verification
- Aircraft electronic test
- Maintenance station





### **Product Features**

- Output frequency range 320Hz-480Hz/300Hz-800Hz,
   Optional range 45Hz-5kHz
- Output capacity range 30VA-30kVA
- Output voltage standard L-N 0-138Vrms
  The value ranges from 0-180Vrms, 276Vrms, and 1kVrms
- Number of output phases Single-phase/three-phase
- Three-phase voltage independent adjustable, phase difference 0-359.99° adjustable
- Linear power technology, ultra-low distortion rate, ultra-low external interference
- Support front panel programming, without computer software control
- The voltage rise and fall slopes are adjustable
- Power output soft start function
- 16 bits D/A high precision converter for accurate output
- 16 bits A/D high precision converter, more accurate read back
- Multiple protection functions OVP, OCP, and OTP
- Standard 19-inch rack size, or floor-to-ceiling cabinet
- 7 inch LCD screen
- Touch screen operation & digital key input
- Multistage shuttle adjustment knob
- The power input is controlled by circuit breaker, which is more secure
- Output the ON/OFF button
- Fan intelligent speed control design, reduce noise
- Front/side air in, rear air out, saving heat dissipation space
- Supports Modbus protocol
- Standard interface: RS-485&RS-232
- Optional interface: LAN, CAN, USB, GPIB,
   Analog programming and monitoring (isolated)

## **HY-PLMSU Series Product Selection Table**

### Product Model Naming Rules

Product Serie	s Input Phase Number	Output Phase Number	Output Capacity	Optional Function	Optional Function
Input single	1 1:indicates the input phase 3:Input three-phase  examples: odel: HY-PLMSU 1300. e-phase, output three er-defined features.	3:Output three-phase	3kVA	- CF Short for optional function See Optional features	- HR High resolution/precision  - D028 DC input, DC 28.5 V  (Some models are supported, please explain when ordering  - D270 DC input, DC 270V  (Some models are supported, please explain when ordering  - T2 operating temperature -20°C to 45°C  -T4 Operating temperature -40°C to 45°C  - CF user-defined function (please specify when ordering)  - MR Measurement Report (issued by CNAS certified third page)

### In the selection table, special specifications outside the voltage/power/output capacity range are accepted for customization.

Product Model	Output Capacity	Input	Expor Tation	Product Model	Output Capacity	Input	Expor Tation	Output Voltage	Output Frequency
HY-PLMSU 1101L	100VA			HY-PLMSU 13L03	30VA			Standard:	
HY-PLMSU 1103L	300VA			HY-PLMSU 13L06	60VA			L-N 0-115Vrms	
HY-PLMSU 1105L	500VA	Single phase		HY-PLMSU 13L09	90VA			L-N 0-138Vrms	Standard:
HY-PLMSU 11001	1kVA			HY-PLMSU 1303L	300VA			Purchase:	400Hz 320Hz - 480Hz
HY-PLMSU 11002	2kVA		Single	HY-PLMSU 1306L	600VA	Single		L-N 0-180Vrms	Purchase:
HY-PLMSU 11003	3kVA	Three		HY-PLMSU 1309L	900VA	phase	Three	L-N 0-230Vrms	45Hz - 5000Hz
HY-PLMSU 31004	4kVA			HY-PLMSU 1315L	1.5kVA			L-N 0-276Vrms L-N 0-1kVrms	
HY-PLMSU 31005	5kVA			HY-PLMSU 13003	3kVA			LIVO INVIIIIS	
HY-PLMSU 31010	10kVA	phase		HY-PLMSU 1345L	4.5kVA	-		Shipboard:	
				HY-PLMSU 3345L	HY-PLMSU 3345L 4.5kVA		-	220V±10% 230V±10%	
				HY-PLMSU 33006	6kVA	-		Boeing 787	
				HY-PLMSU 33010	10kVA			-	
				HY-PLMSU 33015	15kVA	Three			
		-		HY-PLMSU 33018	18kVA	phase			
		-		HY-PLMSU 33030	30kVA				

<sup>\*</sup>When the equipment runs continuously for more than 30 minutes at the specified operating temperature, all technical indicators can be guaranteed.

### Single-phase output

			Single in	, single out	t		Thre	e in, single	out			
Product Model	PLMSU 1101	L PLMSU 1103L	PLMSU 1105L	PLMSU 11001	PLMSU 11002	PLMSU 11003	PLMSU 31004	PLMSU 31005	PLM 31010			
Power	100VA	300VA	500VA	1kVA	2kVA	3kVA	4kVA	5kVA	10kVA			
Model size	2U	4U	4U	4U	10U	15U	18U	24U	30U			
Model Size	*1) 2U and 3) 15U, 18	l 4U, standard 19-inc U and above non-sta	h rack mount, or ta ndard cabinets, flo	bletop (fixed pads) or type cabinets, w	; 2) 10U, standard 1 ith movable univers	9-inch rack type, or sal casters and bral	r floor type (with mekes.	ovable universal ca	sters and brakes);			
Circuit mode	Linear an	plification syst	lification system									
Communicatio mode		rd: RS-485 & RS s: LAN, CAN, US		g programmir	ng and monito	ring interface	(isolated type)	)				
Input												
Connection mode	Single- <sub>l</sub>	ohase two-wire	+ Ground (LN	+PE)				e three-wire + gro four-wire + grou CN+PE)				
Input phase	Single p	ohase 1Φ					Three-pha	ıse 3Ф				
Input waveform	Sinusoi	dal wave					Sinusoida	l wave				
Input voltage	220Vrm	s±10%					380Vrms±	=10%				
Input frequency	47Hz-63	Hz					47Hz-63H	Z				
Exportation	1											
Output phase	Single ph	iase 1Φ										
Rated Standar	L-N 0-13	-138Vrms Continuously adjustable										
set voltage Purchas		80Vrms Continu 0Vrms continuc							sly adjustable			
Rated current	0.7A	2.2A	3.7A	7.3A	14.5A	21.8A	29A	36.3A	72.5A			
	*The rated	current is calculated	d based on the 138'	V voltage. If other v	oltages are selected	, the rated current	is calculated basec	on the selected vo	ltage.			
Maximum curr-	0.9A	2.7A	4.4A	8.7A	17.4A	26.1A	34.8A	43.5A	87A			
ent	*Calculate	the maximum curre	nt based on the 13	3V voltage. For exar	mple, select other v	oltages to calculate	e the maximum cur	rent.				
Frequ-	320 Hz	z ~ 480 Hz Continuously adjustable										
ency Custor		500 Hz, 45 Hz ~ ~ 1200 Hz, 300				Hz You can ch	oose either or	ne				
Property												
Input adjustm	ent rate	≤0.5%F.S. (Re	esistance test)									
Load adjustment rate		≤0.5%F.S. (resistance test, 45Hz-500Hz output); ≤1%F.S. (resistance test, > 500Hz output)										
	ortion(THD)	Sine wave, Th		istance test, 45	5Hz-500Hz out	put); THD≤19	% (resistance t	est, > 500Hz ou	ıtput)			
Waveform dist	Frequency stability		≤0.02%F.S.									
	bility	≤0.02%F.S.										
	-	≤0.02%F.S. ≤0.5%F.S.										
Frequency sta	ty											

Dro	ogramming And Readback Acc	suracy P. Basal	ution					
PIC								
	Voltage output programming Frequency output programm		±0.3% F.S.					
Settings		ing accuracy	±0.01% F.S.					
	Voltage setting resolution		0.01V					
	Frequency setting resolution		0.01Hz					
	Voltage output read-back accur  Current output read back accur		±0.3% F.S.					
Backward	·		±0.3% F.S.					
read	Frequency output read-back	accuracy	±0.01% F.S.					
	Voltage read back resolution		0.01V					
	Current read back resolution		0.0001A (≤6A);0.001A (≤60A);0.01A<600A (16Bits resolution)					
	Frequency read-back resoluti	on	0.01Hz					
Pro	otection Function							
Pro	otection function	Overvoltage	e, overcurrent, internal overheating, short circuit					
Ov	verload capacity	125% curre	nt 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately					
Me	emory function	Parameters	of the last run					
Pre	eset function	Adjust the c	output voltage and frequency online					
En	vironmental Condition							
En	vironment	Indoor use;	Installation overvoltage class: II; Pollution level: P2; II equipment					
Ор	perating ambient temperature	0°C to 45°C;	0°C to 45°C; Choose from -20°C to 45°C; -40°C to 45°C					
Sto	Operating ambient temperature  Storage ambient temperature		-20°C to 65°C					
Wo	orking ambient humidity	20%-90%RH, no condensation, continuous operation						
Sto	orage environment humidity	10%-95%RH, no condensation						
Alti	itude	Above 2000 meters above sea level, the power is reduced by 2% per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters; When not in operation, it can reach an altitude of 12,000m						
Co	ooling condition	Forced air cooling, intelligent speed control fan, both sides/front air, rear air						
Tra	ansport condition	Road transp	port					
Со	ontrol Panel							
Dis	splay	4/7 inch, L	CD LCD display, touch screen					
Dis	play item	Phase volt working ti	age (set value & measured value), current measured value, frequency set value, me, cumulative working time, current time and date					
Со	ontrol function	Output ON	/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator					
Mo	ode of operation	Key input/l	_CD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment)					
Со	ontrol mode	Local contr	ol/remote control					
Pro	ogramming function	Step/ladde	er/gradient					

Product	t model	PLMSU 13L03	PLMSU 13L06	PLMSU 13L09	PLMSU 1303L	PLMSU 1306L	PLMSU 1309L	PLMSU 1315L	PLMSU 13003	PLMSU 1345L			
Power		30VA	60VA	90VA	300VA	600VA	900VA	1.5kVA	3kVA	4.5kVA			
		2U	2U	2U	4U	4U	10U	10U	18U	24U			
Model size	*1) 2U and 4U, 9 3) 18U and abo	standard 19-inch ra ve non-standard c	ack mount, or table abinets, floor to flo	etop (fixed pads); por cabinets, with	2) 10U, standard 19 movable universal	9-inch rack type, o casters and brake	r floor type (with n s.	novable universal o	casters and brakes);				
Circuit r	mode	Linear amplif	fication syster	n									
Commu	nication	Standard: RS-485 & RS-232 Options: LAN, CAN, USB, GPIB, analog programming and monitoring interface (isolated type)											
Inpu	t												
Connec mode	ction	Single-phas	se two-wire +	Ground (LN+F	PE)								
Input pl	hase	Single phas	se 1Ф										
Input wa	aveform	Sinusoidal	wave										
Input vo	oltage	220Vrms±1	10%										
Input fre	equency	47Hz-63Hz											
Ехро	ortation												
Output	phase	Three-phase	3Ф										
Rated	Standard	L-N 0-138Vrms is continuously adjustable, L-L 0-240Vrms is continuously adjustable											
set voltage	Purchase	L-N 0-180Vrms Continuously adjustable; L-N 0-230Vrms continuously adjustable; L-N 0-276Vrms Continuously adjustable; Max1000Vrms continuously adjustable (optional model, output current will be reduced proportionally)											
Rated cı	urrent	0.07A	0.15A	0.22A	0.73A	1.45A	2.2A	3.63A	7.25A	10.9A			
	direite	*The rated cu	ırrent is calculated	based on the 138	V voltage. If other	voltages are select	ted, the rated curre	ent is calculated ba	sed on the selecte	ed voltage.			
Maximui	m curr-	0.09A	0.18A	0.26A	0.88A	1.74A	2.6A	4.36A	8.7A	13.1A			
ent		*Calculate the maximum current based on the 138V voltage. For example, select other voltages to calculate the maximum current.											
Frequ-	Standard	Rated 400H	00Hz, adjustable range 320Hz-480Hz continuously adjustable										
ency	Custom			Hz ~ 800 Hz, 300 Hz ~ 500 Hz, 300 Hz ~ 800 Hz, 300 Hz ~ 1500 Hz, 300 Hz ~ 1500 Hz, 300 Hz ~ 2000 Hz, 500 Hz, 500 Hz ~ 2000 Hz, 500 Hz									
Prop	perty												
Input ad	djustmer	nt rate	≤0.5	≤0.5%F.S. (Resistance test)									
Load ad	djustmen	it rate	≤0.5	≤0.5%F.S. (resistance test, 45Hz-500Hz output); ≤1%F.S. (resistance test, > 500Hz output)									
Wavefo	rm disto	rtion(THD)	Sine	Sine wave, THD≤0.5% (resistance test, 45Hz-500Hz output); THD≤1% (resistance test, > 500Hz output									
Frequency stability		€0.02	≤0.02%										
Voltage stability		≤0.50	≤0.5%										
Voltage	crest co	efficient	1.414	±0.05									
Voltage	unbalan	ice	Three	e-phase outpu	ut ≤0.5Vrms	(no load or ba	lanced load)						
Phase d	difference	9	Load	three-phase l	balance or no	o-load ±2°							
Noise			<65c	IB(A), use 1m	to weigh the	measuremen	t						
Throo ph	hase volta	ge/phase differe	ence Three	e-phase volta	ge independe	ent adiustable	, phase differ	ence 0-359 99	° adiustable				

Dec	agramming And Doodhack Ass	uracu <sup>©</sup> Dacalus	ion				
Pro	ogramming And Readback Acci						
	Voltage output programming		±0.3% F.S.				
Settings	Frequency output programmi	ng accuracy	±0.01% F.S.				
	Voltage setting resolution		0.01V				
	Frequency setting resolution		0.01Hz				
	Voltage output read-back accu	-	±0.3% F.S.				
Backward	Current output read back accu		±0.3% F.S.				
read	Frequency output read-back a	ccuracy	±0.01% F.S.				
	Voltage read back resolution		0.01V				
	Current read back resolution		0.0001A (≤6A);0.001A (≤60A);0.01A<600A (16Bits resolution)				
	Frequency read-back resolution		0.01Hz				
Pro	otection Function						
Pro	otection function	Overvoltage,	overcurrent, internal overheating, short circuit				
Ov	verload capacity	125% current	15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately				
Me	emory function	Parameters of	the last run				
Pre	eset function	Adjust the out	put voltage and frequency online				
En	vironmental Condition						
En	vironment	Indoor use; Ir	stallation overvoltage class: II; Pollution level: P2; II equipment				
Op	erating ambient temperature	0°C to 45°C; C	hoose from -20°C to 45°C; -40°C to 45°C				
Sto	orage ambient temperature	-20°C to 65°C					
Wo	orking ambient humidity	20%-90%RH,	no condensation, continuous operation				
Sto	orage environment humidity	10%-95%RH, no condensation					
Alt	itude		eters above sea level, the power is reduced by 2% per 100 meters, or the maximum working erature is reduced by 1°C per 100 meters; When not in operation, it can reach an altitude of				
Со	ooling condition	Forced air co	oling, intelligent speed control fan, both sides/front air, rear air				
Tra	ansport condition	Road transpo	rt				
Co	ontrol Panel						
Dis	splay	4/7 inches, L	CD LCD display, touch screen				
Dis	play item	-	(set value & measured value), current measured value, frequency set value, working time, rking time, current time and date				
Со	ntrol function	Output ON/0	DFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator				
Mc	ode of operation	Key input/L0	CD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment)				
Со	ntrol mode	Local contro	ol/remote control				
Pro	ogramming function	Step/ladder/	gradient				

111	ree Phas	se Input Three P	nase Output								
Product	model	PLMSU 3345L	PLMSU 33006	PLMSU 33010	PLMSU 33015	PLMSU 33018	PLMSU 33030				
Power		4.5kVA	6kVA	10kVA	15kVA	18kVA	30kVA				
Mode	محزد ا	24U	30U	Non-standard cabinet	Non-standard cabinet	Non-standard cabinet	Non-standard cabine				
Wode	.1 3120	*1) Non-standard	cabinet above 18U	, floor to floor cabine	et with movable univ	ersal casters and bra	akes。				
Circuit	mode	Linear amplificatio	n system								
Commui mc	nication ode	Standard: RS-485 Options: LAN, CA		og programming and	monitoring interface	e (isolated type)					
Inp	out										
onnecti	on mode	Three-phase three	-wire + Ground wire	e & three-phase four-	wire + ground wire (A	ABC+PE/ABCN+PE)					
Input	phase	Three-phase 3Φ									
Input w	aveform	Sinusoidal wave									
Input v	oltage	380Vrms±10%									
Input fre	equency	47Hz-63Hz									
Exp	oortation										
Output phase Thre		Three-phase 3Φ									
ated S	Standard	L-N 0-138Vrms is o	0-138Vrms is continuously adjustable, L-L 0-240Vrms is continuously adjustable								
et oltage F	Purchase		.80Vrms Continuously adjustable; L-N 0-230Vrms continuously adjustable; L-N 0-276Vrms Continuously adjusta 20Vrms continuously adjustable (Optional voltage, output current will be proportionally reduced)								
Rated cı	urrent	10.9A	14.5A	24.2A	36.3A	43.5A	72.5A				
		*The rated current is ca	lculated based on the 138	V voltage. If other voltages a	are selected, the rated curre	nt is calculated based on the	e selected voltage.				
laximum	current	13.1A	17.4A	29A	43.5A	52.2A	87A				
	Standard			480Hz continuously a	lect other voltages to calcul adiustable	ate the maximum current.					
equency	,		45 Hz ~ 500 Hz, 45 Hz ~ 800 Hz, 300 Hz ~ 500 Hz, 300 Hz ~ 800 Hz,								
	Custom	300 Hz ~ 1200 Hz	, 300 Hz ~ 1500 Hz,	300 Hz ~ 2000 Hz, 50	00 Hz-5KHz You can c	choose either one					
	operty	rata <0.50%EC	(Desistance test)								
	djustment djustment		≤0.5%F.S. (Resistance test) ≤0.5%F.S. (resistance test, 45Hz-500Hz output); ≤1%F.S. (resistance test, > 500Hz output)								
	n distortior		Sine wave, THD≤0.5% (resistance test, 45Hz-500Hz output); THD≤1% (resistance test, > 500Hz output)								
	uency stabi		Sine wave, 111D ≈ 0.370 (resistance test, 43112-300112 output), 111D ≈ 170 (resistance test, > 300112 output)  ≤0.02%								
· · ·	age stabilit	-	<0.02% ≤0.5%								
	crest coeff ge unbala		t 1.414±0.05  Three-phase output ≤0.5Vrms (no load or balanced load)								
	se differen		se output ≤0.5vrm -phase balance or r		eu (UdU)						
			·								
Noise		ge/	≤65dB(A), use 1m to weigh the measurement								

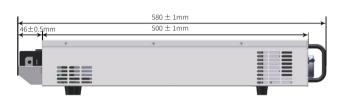
Pro	ogramming And Readback Acci	uracy & Resol	ution				
	Voltage output programming		±0.3% F.S.				
	Frequency output programming		±0.01%F.S.				
Settings	Voltage setting resolution		0.01V				
	Frequency setting resolution		0.01Hz				
	Voltage output read-back accu	ıracy	±0.3%F.S.				
Daalassa	Current output read back accu	ıracy	±0.3%F.S.				
Backward read	Frequency output read-back a	ccuracy	±0.01%F.S.				
	Voltage read back resolution		0.01V				
	Current read back resolution		0.0001A (≤6A); 0.001A (≤60A); 0.01A <600A (16Bits resolution)				
	Frequency read-back resolution	n	0.01Hz				
Pro	otection Function						
Pro	otection function	Overvoltage	e, overcurrent, internal overheating, short circuit				
Ov	erload capacity	125% currer	nt 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately				
Me	mory function	Parameters	of the last run				
Pre	eset function	Adjust the output voltage and frequency online					
En	vironmental Condition						
En	vironment	Indoor use;	Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment				
Ор	erating ambient temperature	0°C to 45°C	; Choose from -20°C to 45°C; -40°C to 45°C				
Sto	orage ambient temperature	-20°C to 65°C					
Wo	orking ambient humidity	20%-90%RH, no condensation, continuous operation					
Sto	orage environment humidity	10%-95%RH, no condensation					
Alti	itude	Above 2000 meters above sea level, the power is reduced by 2% per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters; When not in operation, it can reach an altitude of 12,000 meters					
Со	oling condition	Forced air cooling, intelligent speed control fan, both sides/front air, rear air					
Tra	ansport condition	Road transport					
Со	ntrol Panel						
Dis	play	7 inches, L	CD LCD display, touch screen				
Dis	Display item		ge (set value & measured value), current measured value, frequency set value, working time, working time, current time and date				
Со	Control function Ou		OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator				
Мо	Mode of operation K		CD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment)				
Со	ntrol mode	Local contro	ol/remote control				
Pro	ogramming function	Step/ladder	er/gradient				

### Appearance & Size

### 2U 430(W) \* 500(D) \* 88(H) mm









### 4U 433(W)\*560(D)\*177(H)mm







### 10U 440(W)\*600(D)\*445(H)mm







# **Appearance & Size**

### 18U 600(W)\*800(D)\*920(H)mm







24U 600(W)\*800(D)\*1190(H)mm 30U 600(W)\*800(D)\*1453(H)mm 36U 600(W)\*800(D)\*1718(H)mm

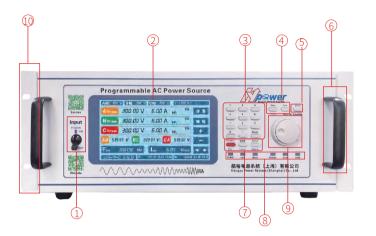






### **Display And Control Panel**

#### Control Panel



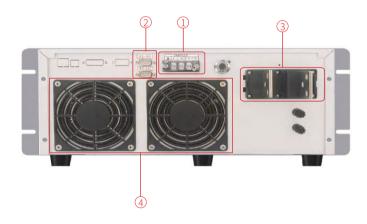
- ① Power input circuit breaker
- ② LCD display (7 inches, touch screen)
- 3 Numeric input keyboard
- 4 Frequency/voltage or current setting key
- ⑤ Shift function reuse key
- 6 Chassis handle
- 7 Lock Lock, Enter confirm, Esc exit

Local Local or Reset Restarts

Output ON/OFF Switch

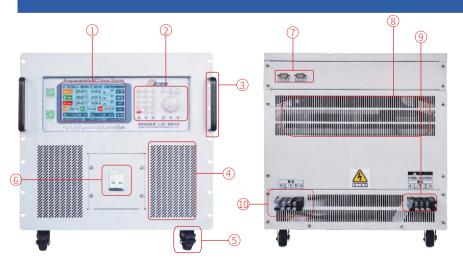
- ® Status indicator
- Multi-stage shuttle adjustment knob (inner ring fine adjustment/outer ring coarse adjustment)
- 19-inch standard rack mounting holes

### Rear Panel



- ① AC input terminal
- ② RS-485 & RS-232 communication interface
- 3 AC output terminal
- 4 Heat dissipation outlet

#### Front Panel & Rear Panel



- ① LCD display (7 inches, touch screen)
- ② Control area
- ③ 19-inch standard rack handle
- 4 Heat dissipation inlet
- ⑤ Casters
- **6** Power input circuit breaker
- ① Communication interface
- ® Heat dissipation outlet
- AC input terminals
- 10 AC output terminal

### **Display And Control Panel**

### **Display Interface**



- ① Three-phase voltage
- ② Product frequency
- ③ Three-phase voltage and current display area
- ④ Frequency/voltage setting value
- (5) Function setting area
- © Current time
- ⑦ Cumulative running time
- This running time

### Display Interface



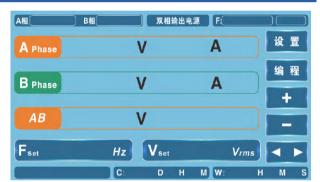
Main interface of single-phase power supply



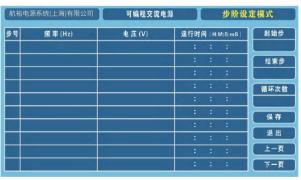
Main interface of three-phase power supply



Step setting page can set the required initial frequency, Step frequency, initial voltage, step voltage, step number and step time



Main interface of the dual phase power supply



Step setting page can set the required frequency, voltage, Run time, initial step, end step, and number of cycles

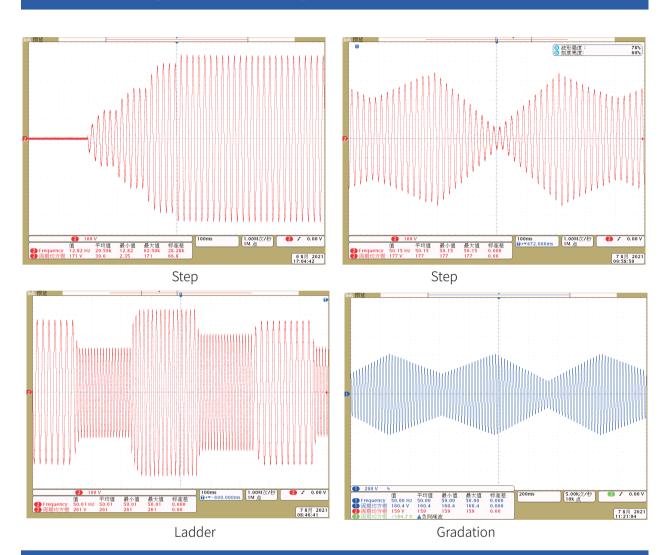
						渐变设?	
步号	频 率 (Hz)		电压(V)	运行时间	(时:分	:秒:毫秒)	起始步
	起						
	止					1	结束步
	起						
	止					•	循环次数
	起		for any				
	止	1					保存
	起						
	止					•	退出
	起						上一页
	止			:			下一页

The gradient Settings page can set the required voltage and frequency Run time, initial step, end step

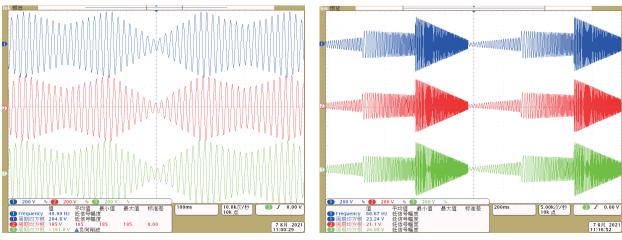
Panel

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### Output Voltage Waveform Of Single-phase Power Supply



### Output Voltage Waveform Of Three-phase Power Supply



Three-phase gradient

### **Cooperative Customers (Part)**

#### Aerospace & Defense Military Research Lnstitute















China Aerospace

Aerospace science and engineering

Aviation industry

China Air Development

China Electrical

China Shipbuilding

China Shipbuilding

CASC 803 (Shanghai Aerospace Control Technology Institute)

CASC 800 (Shanghai Aerospace Precision Machinery Research Institute)

CASC 804 (Shanghai Aerospace Electronic Communication Equipment Research Institute) AVIC 607 Institute (China Leihua Electronic Technology Institute)

CASC 805 (Shanghai Aerospace System Engineering Institute)

CASC 808 (Shanghai Precision Measurement and Testing Institute)

CASC 811 (Shanghai Space Power Research Institute)

CASC 812 (Shanghai Satellite Equipment Research Institute)

CASC 801 (Shanghai Space Propulsion Research Institute)

CASC 502 (Beijing Control Engineering Research Institute)

CASC 510 (Lanzhou Institute of Space Technology Physics)

CASIC 206 (Beijing Machinery and Equipment Research Institute)

CASIC 304 Institute (Beijing Great Wall Institute of Measurement and Testing Technology)

CASIC 307 Factory (Aerospace Chenguang Co., LTD.)

33 CASIC (33 Aerospace Science and Industry Institutes)

CASIC 3651 Factory (Guizhou Aerospace Linguan Motor Co., LTD.)

AVIC 615 (Aeronautical Radio Electronics Research Institute of China)

AVIC 618 (Xi 'an Flight Automatic Control Research Institute)

AVIC 105 Factory (Tianjin Aviation Electromechanical Co., LTD.)

AVIC 115 Factory (Shaanxi Aero Electric Co., LTD.)

**Engineering Group** Corporation

Industry Corporation

AVIC 118 Factory (Shanghai Aviation Electric Appliance Co., LTD.)

AVIC 181 Factory (Wuhan Aviation Instrument Co., LTD.)

AECC 606 Institute (Shenyang Engine Research Institute)

CETC 14 Institute (Nanjing Institute of Electronic Technology)

CETC 21 Institute (Shanghai Micromotor Research Institute)

CETC 23 Institute (Shanghai Transmission Line Research Institute)

CETC 36 Institute (Jiangnan Institute of Electronic Communication)

CETC 38 Institute (East China Institute of Electronic Engineering)

CETC 50 Institute (Shanghai Microwave Technology Research Institute)

CETC 51 Institute (Shanghai Microwave Equipment Research Institute)

CETC 54 Institute (Shijiazhuang Communication Measurement and Control

Technology Research Institute)

CETC 55 Institute (Nanjing Institute of Electronic Devices)

CSIC 707 Institute (Tianjin Institute of Marine Instruments)

CSIC 719 Institute (Wuhan Second Ship Design Institute)

CSIC 704 Institute (Shanghai Marine Equipment Research Institute)

CSIC 726 Institute (Shanghai Marine Electronic Equipment Research Institute)

Jiangnan Shipbuilding (Group) Co., LTD

Nanjing Panda Electronics Co., LTD

State-owned 741 Factory (Nanjing Huadong Electronics Group Co., LTD.)

### Chinese People's Liberation Army

South Sea Fleet

East China Sea Fleet

North Sea Fleet

Navy Plant 701 / Plant 702

4724 Factory (Shanghai Haiying Machinery Factory)

Unit 95861 (Empty Base 1)

#### Commercial Aviation





Commercial Aircraft Corporation of China

Rockwell Collins





Guangzhou Aircraft Maintenance Engineering Co., LTD

Beijing Aircraft Maintenance Engineering Co., LTD

#### Scientific Research & Third Party Quality Inspection Agency



Technical Institute of Physics and Chemistry (Beijing) Institute of Urban Environment (Xiamen) Electrotechnical Research Institute (Beijing) Institute of Applied Physics (Shanghai)











苏州电器科学研究院股份有限公司 国家智能电网中高压成套设备质量监督检验中心 国家电器产品质量监督检验中心







### **Cooperative Customers (Part)**

### Military Academies & Local Universities



National University of Aerospace engineering Defense Technology



university



Army Engineering University



Air force Engineering University



Naval University of Engineering



Dalian Naval Academy



Naval Aeronautical University



Beijing University of Aeronautics and Astronautics of Technology



Beijing Institute



Harbin Institute of Technology



Harbin Engineering University



Nanjing University of Aeronautics and Astronauticscience and TechnologyPolytechnical University



Nanjing University of



Northwestern



University of Science and Tsinghua University



Peking University.



Shanghai Jiao Tong University



**Zhejiang University** 



Tianjin University Hust (Huazhong University of Science and Technology)





Power University



Beijing University of Technology



Zhejiang University of Technology



Xi 'an University of Technology



Dalian Maritime University



South China University of Technology

#### High-tech R&D Enterprise





Xiamen fara





Epcos



Teko



Weidmuller Honeywell









Siemens



Panasonic

ABB



Schneider



The Chint Noyak



Xiamen Hongfa



Honeywell

People's electric apparatus



China Railway Rolling Stock

Corporation













irstack





rime-rel



Gree Electric Appliances

NICHNXIN

群芯領电子

Group core

Microelectronics

Guilin rubber machinery factory



Shanghai Electric





Shanghai Zhanxin



Chenxin Technology





China Automotive Heavy duty Automobile Research BMW Brilliance

nd technology







Hongqi Automobile

Hangzhou Zhongsi



Fexide

Saic Motor Corporation



Saic Volkswagen Geely Automobile















Huichuan

Shanghai Tongmin vehicle

Nind era

Chinese Express

United New Energy

Research Institute and Development Corporation

Read core TechnologyWilling to create science a



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# Contact us

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<sup>®</sup>Hangyu Power System, 2024

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