HY-PSA Series Programmable Switching AC Power Supply



Hangyu Power System (Shanghai) Co., LTD







HY-PSA Series Programmable Switching AC Power Supply



High Power High Precision High Reliability





Application Field

- motor
- Household appliance industry
- Testing laboratory
- Industrial power supply
- Motor/Compressor
- IT manufactures electronics
- New energy
- Medical treatment
- Dock shore power/shipyard
- National defense industry

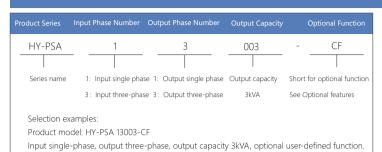


Product Features

- Output frequency range 45Hz-70Hz
- Output power range 1kVA-900kVA
- Output voltage L-N 0-150 Vrms/300Vrms/1 kVrms
- Three-phase voltage independent adjustable,
 - phase difference 0-359.99° adjustable
- 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
- Supports Modbus protocol
- Supports Modbus protocol
- Optional interface: LAN、CAN、GPIB、USB

Analog programming and monitoring (isolated)

Product Model Naming Rules



Optional Function

HR —— High resolution/high precision

- D028 ----- DC input, DC 28.5V(some models support, please specify when ordering)
- D270 ----- DC input, DC 270V(some models support, please specify when ordering)
- T2 ----- operating temperature -20°C to 45°C
- CF ----- user-defined function (please specify when ordering)

MR ----- Measurement Report (issued by CNAS certified third party)

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

SA	Product Model	Output Capacity	Input	Expor Tation	Product Model	Output Capacity	Input	Expor Tation	Phase Voltage (L-N,Vrms)	Output Frequency			
02	HY-PSA 11001	1kVA			HY-PSA 1315L								
	HY-PSA 11002	2kVA			HT-FSA ISISL	I.JKVA							
	HY-PSA 11003	3kVA	Single		HY-PSA 13003	3kVA	-						
	HY-PSA 11005	5kVA	phase		HY-PSA 1345L	4.5KVA	priase						
	HY-PSA 31010	10kVA			HY-PSA 33010	10kVA							
	HY-PSA 31015	15kVA			HY-PSA 33015	15kVA							
	HY-PSA 31030	30kVA			HY-PSA 33030	30kVA			0-150V 0-300V High and low	45-70Hz			
	HY-PSA 31045	45kVA			HY-PSA 33045	45kVA							
	HY-PSA 31060	60kVA			HY-PSA 33060	60kVA	-						
	HY-PSA 31075	75kVA		Single	HY-PSA 33075	75kVA		Three	output				
	HY-PSA 31100	100kVA	phase		phase	phase	1'	HY-PSA 33090	90kVA	-	phase		
	HY-PSA 31120	120kVA	Three phase		HY-PSA 33120	120kVA			(assorting)				
	HY-PSA 31150	150kVA	priase		HY-PSA 33150	150kVA	pridoc						
	HY-PSA 31180	180kVA			HY-PSA 33180	180kVA							
	HY-PSA 31200	200kVA			HY-PSA 33210	210kVA							
	HY-PSA 31250	250kVA			HY-PSA 33240	240kVA							
	HY-PSA 31300	300kVA			HY-PSA 33300	300kVA							
	HY-PSA 31450	450kVA			HY-PSA 33450	450kVA							
	HY-PSA 31500	500kVA			HY-PSA 33600	600kVA							
		JUON			HY-PSA 33900	5L 1.5kVA Single phase 03 3kVA Single phase 5L 4.5kVA 10 10kVA 11 10kVA 12 15kVA 13 15kVA 14 15kVA 15 15kVA 16 60kVA 17 75kVA 180kVA 10 120kVA 11 180kVA 10 210kVA 10 210kVA 10 240kVA 10 300kVA 10 450kVA 10 600kVA 10 600kVA 10 600kVA 10 <td< td=""><td></td><td></td></td<>							

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

PSA

					Sin	gle-phas	se outpu	t						
			Sing	le in, sir	ngle out				Three ir	, one οι	ıt			
Product	t model	PSA 11001	PSA 11002	PSA 11003	PSA 11005	PSA 31010	PSA 31015	PSA 31030	PSA 31045	PSA 31060	PSA 31075	PSA 31100		
Power		1kVA	2kVA	3kVA	5kVA	10kVA	15kVA	30kVA	45kVA	60kVA	75kVA	100kVA		
Model	sizo	4U	4U	10U	10U	15U	18U	30U	404	405	405	405		
MODEI	Model size Circuit mode		 *1) 4U, standard 19-inch rack mount, or tabletop (fixed pad); 2) 10U, standard 19-inch rack type, or floor type (with movable universal casters and brakes); 3) 15U, 18U and above non-standard cabinets, floor type cabinets, with movable universal casters and brakes. 											
Circuit	mode	IGBT/P\	NM pulse w	/idth modu	lation mod	e								
Commu mode	unication			t: RS-485 & RS-232 LAN, CAN, USB, GPIB, analog programming and monitoring interface (isolated type)										
Inpu	ut													
Conne mode	ction	Single-p	phase two-v	vire + Grou	ind (LN+PE)			phase + Grou /ire + Ground		e/abcn+pe)				
Input p	bhase	Single p	ohase 1Ф			Three	-phase 3Φ							
Input w	vaveform	Sinusoia	dal wave			Sinus	oidal wave							
Input v	voltage	220Vrm	s±15%			380Vr	rms±15%							
Input fr	equency	47Hz-6	3Hz	Hz 47Hz-63Hz										
Exp	ortation													
Output	t phase	Single p	ohase 1Ф											
Rated s voltage				,		0 0 .		Vrms contin current will k	, ,		U .			
	Top grade	3.34A	6.67A	10A	16.67A	33.34A	50A	100A	150A	200A	250A	333.34A		
Rated current	low-end	6.67A	13.34A	20A	33.34A	66.67A	100A	200A	300A	400A	500A	666.67A		
	Annotati- on	The high g	rade rated curr	ent calculated	based on 300V	voltage; The lo	w rated current	is calculated ba	sed on the 150\	/ voltage.	e (low grade), ortionally) 00A 250A 00A 500A ge. 50A 312.5A	1		
Maximum	Top grade	4.2A	8.4A	12.5A	20.84A	41.68A	62.5A	125A	187.5A	250A	312.5A	416.68A		
current	low-end	8.4A	16.7A	25A	41.7A	83.34A	125A	250A	375A	500A	625A	833.34A		
	Annotati- on	The high g	grade maximum	n current is calc	ulated accordir	ng to 300V volta	age; The maxim	um low current	is calculated ba	sed on the 150\	/ voltage.			
Freque	ency	45Hz-7	0Hz Contini	uously adju	stable									
Pro	perty													
Input a	adjustme	nt rate	≤0.5%F.S. (Resistance test)											
Load a	djustmer	nt rate	≤1%F.S. (Resistance test)											
Wavef	orm dista	ortion (THD)	Sine wave, THD≤2% below 100kVA; 100kVA-300kVA THD≤3%; ≤5% above 300kVA (resistance test)											
Efficier	псу		≤150k\	/A model e	fficiency ≥9	90%; > 150k	VA model e	efficiency ≥9	2%;					
Efficiency		≤0.02%F.S.												
Freque	ency stab	ility	≤0.02°	%F.S.										
	ency stab		≤0.02° ≤0.5%											
Voltage	e stability			F.S.										

Voltage output programming accuracy 10,5%E.5. Frequency output programming accuracy ±0,0%E.5. Voltage setting resolution 0,01V Frequency setting resolution 0,01V Voltage output read-back accuracy 10,5%E.5. Current output read-back accuracy 10,5%E.5. Current output read-back accuracy ±0,01%E.5. Protection function 0,01V Current read-back resolution 0,01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 1125% current 5s, 20% current 2s, 30% current 5top output immediately Memory function Parameters of the last run Preset function Adjust the output voltage class: It, Pollution level: P2, II equipment Operating ambient temperature -20°C to 65°C Working ambient temperature -20°C to 65°C Working ambient humidity 10%-95%RH, no condensation, continuous operation Atinud	Progr	amming And Readba	ck Accuracy & Resolu	ution				
Settings Veltage setting resolution 0.01V Frequency setting resolution 0.01Hz Veltage cutput read-back accuracy ±0.5%F.S. Eaclowed Frequency output read-back accuracy ±0.5%F.S. Veltage read back resolution 0.01Hz Protection Function 0.01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 5s, 200% current 2s, 300% current 5top output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environment Indoor use; Installation overvoltage class: It, Pollution level; P2; It equipment Operating ambient temperature -20°C to 65°C Working ambient humidity 10% 595%RH, no condensation, continuous operation Storage environment humidity 10% 595%RH, no condensation Above 2000 meters above sea leval, the power is reduced by 2% per 100 meters, or the m		Voltage output progr	amming accuracy	±0.5%F.S.				
Whage setting resolution 0.0TV Frequency setting resolution 0.0THz Wolfage output read-back accuracy 40.5%F.S. Current output read-back accuracy 40.05%F.S. Prequency output read-back accuracy 40.05%F.S. Current ead back resolution 0.0TV Current read back resolution 0.0TV Current read back resolution 0.0THz Protection Function 0.0THz Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 2s, 300% current 5top output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environment Indoor use; Installation overvoltage class; It Pollution level: P2; II equipment Operating ambient temperature -20°C to 65°C Working ambient temperature -20°C to 65°C Working ambient humidity 20%=93%RH, no condensation, continuous operation Storage environment humidity 10%-93%RH, no condensation Attude Above 200 meets above saie level, the power is reduced by 2% per 100 meters, or the maximum working ambient temperature is	Settings -	Frequency output pro	gramming accuracy	±0.01%F.S.				
Weltage output read-back accuracy ±0.5%F.S. Current output read-back accuracy ±0.5%F.S. Frequency output read-back accuracy ±0.0%F.S. Voltage read back resolution 0.01V Current read-back resolution 0.01A Trequency read-back resolution 0.01A Protection Function 0.01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 2s, 300% c		Voltage setting resolu	tion	0.01V				
Early and the second		Frequency setting res	olution	0.01Hz				
Backward read Proquency output read-back accuracy ±0.01% FS. Valtage read back resolution 0.01V Current read back resolution 0.01A Protection Function 0.01Hz Protection Function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 5s, 150% current 5s, 200% current 2s, 300% current 5top output immediately Memory function Parameters of the last run Protection Innet Adjust the output voltage and frequency online Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation Attitude Above 2000 meters above sea level, the power is reduced by 2% per 100 meters, or the maximum working ambient temperature Attitude 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, or the maximum working ambient temperature. Coting condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road tran		Voltage output read-k	back accuracy	±0.5%F.S.				
Backward Voltage read back resolution 0.01V Current read back resolution 0.01A Frequency read-back resolution 0.01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 5s, 200% current 2s, 300% current 5top output immediately Memory function Parameters of he last run Preset function Adjust the output voltage and frequency online Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature -20°C to 45°C Working ambient humidity 20%-99%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude Above 2000 meters above saa level, the power is reduced by 2% per 100 meters, or the maximum working ambient temperature Altitude Above 2000 meters above saa level, the power is reduced by 2% per 100 meters, or the maximum working ambient temperature Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Forced air cooling, intelligent speed control fan, both sides/front air, current time and date Display 7 inches, ICD ICD display, touch	-	Current output read k	back accuracy	±0.5%F.S.				
Voltage read-back resolution 0.014 Current read back resolution 0.014 Protection Function 0.01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environment Indoor use; Installation overvoltage class; II; Pollution level; P2; II equipment Operating ambient temperature -20°C to 45°C Storage environment humidity 20%-59%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12.0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Line voltage/phase voltage (ser value & working time, current value, output power display; term Display item Tinches,	Backward.	Frequency output rea	d-back accuracy	±0.01%F.S.				
Interview Description Prequency read-back resolution 0.01Hz Protection Function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environmental Condition overvoltage class; II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-59%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Alttude 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 120 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display item Line voltage/phase voltage for value, % measured value), current measurement value, output power display, requency set value, working time, current time and date <td< td=""><td>read</td><td>Voltage read back res</td><td>olution</td><td>0.01V</td></td<>	read	Voltage read back res	olution	0.01V				
Protection Function Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capadity 125% current 15s, 150% current 2s, 300% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C Vorking ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working family 10%-95%RH, no condensation Altitude 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, or the maximum working family 10% meters and temperature is reduced by 1°C per 100 meters, or the maximum working family 1°C per 100 meters, or the maximum working family 1°C per 100 meters, the power all 1°C per 100 m		Current read back res	olution	0.01A				
Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-99%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Attitude Above 2000 meters above see level; the power is reduced by 2% per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters,		Frequency read-back	resolution	0.01Hz				
Overload capacity 125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12.0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value, working time, current time and date control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator	Prote	ction Function						
Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online. Environmental Condition Indoor use, Installation overvoltage class: II; Pollution level; P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment	Protectior	n function	Overvoltage, ov	ercurrent, internal overheating, short circuit				
Preset function Adjust the output voltage and frequency online Environmental Condition Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display item Line voltage (set value & measured value), current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment	Overload	capacity	125% current 15s	, 150% current 5s, 200% current 2s, 300% current Stop output immediately				
Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Display Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment	Memory f	unction	Parameters of the last run					
Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display, Frequency set value, working time, curnulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Preset fun	iction	Adjust the output voltage and frequency online					
Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Envirc	onmental Condition	-					
Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Display Display 7 inches, LCD LCD display, touch screen Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display, Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Environme	ent	Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment					
Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display, Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Operating	ambient temperature	0°C to 45°C; Choose from −20°C to 45°C					
Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Display Display 7 inches, LCD LCD display, touch screen Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Storage ar	mbient temperature	-20°C to 65°C					
Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Display Display 7 inches, LCD LCD display, touch screen Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display, Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Working a	mbient humidity	20%-90%RH, no condensation, continuous operation					
Altitude ambient temperature is reduced by 1°C per 100 meters;When not in operation, it can reach an altitude of 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Image: Control Panel Display 7 inches, LCD LCD display, touch screen Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Storage er	nvironment humidity	10%-95%RH, no condensation					
Transport condition Road transport Control Panel Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Altitude		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					
Control Panel Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Cooling co	ondition	Forced air cooling, intelligent speed control fan, both sides/front air, rear air					
Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Transport	condition	Road transport					
Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display, Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Contr	ol Panel						
Display item power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Display		7 inches, LCD LC	CD display, touch screen				
Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Display ite	em						
Control mode Local control/remote control	Control fu	Inction	Output ON/OFF	/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator				
	Mode of	operation	Key input/LCD in	put/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment)				
Programming function Step/ladder/gradient	Control m	node	Local control/re	mote control				
	Programm	ning function	Step/ladder/gra	dient				

					т	hree-pha	se outpu	t				
		On	e in, thre	e out			Three in	, three o	ut			
Produc	t model	PSA 1315L	PSA 13003	PSA 1345L	PSA 33010	PSA 33015	PSA 33030	PSA 33045	PSA 33060	PSA 33075	PSA 33090	
Power		1.5kVA	3kVA	4.5kVA	10kVA	15kVA	30kVA	45kVA	60kVA	75kVA	90kVA	
N d a al a l		4U	4U	10U	18U	18U	30U	404	405	405	405	
Model si	size	*1) 4U, standard 19-inch rack mount, or tabletop (fixed pad); 2) 10U, standard 19-inch rack type, or floor type (with movable universal casters and brakes); 3) 15U, 18U and above non-standard cabinets, floor type cabinets, with movable universal casters and brakes.										
Circuit	mode	IGBT/PV	VM pulse wi	dth modulati	on mode							
Communication Standard: RS-485 & RS-232 mode Options: LAN, CAN, USB, GPIB, analog programming and monitoring interface (isolated type)												
Inp	ut											
Connect	ion mode	Single-ph	ase two-wire + G	Fround (LN+PE)	Three-ph	ase three-phase	e + Ground wire	& Three-phase f	our-wire + Grou	nd wire (ABC+PI	E/ABCN+PE)	
Input p	hase	Single p	ohase 1Ф		Three-	phase 3Ф						
Input w	aveform	Sinusoid	dal wave		Sinuso	idal wave						
Input v	oltage	220Vrm	s±15%		380Vrn	ns±15%						
Input fr	equency	47Hz-6	3Hz		47Hz-6	53Hz						
Exp	ortation				'							
Output	: phase	Sinusoi	dal wave									
Rated : voltage			L-N 0-300Vrms Continuously adjustable (high grade), L-N 0-150Vrms continuously adjustable (low grade) Max1000Vrms continuously adjustable (optional model, output current will be reduced proportionally)									
	Top grade	1.67A	3.34A	5A	11.1A	16.67A	33.34A	50A	66.67A	83.34A	100A	
Rated current	low-end	3.34A	6.67A	10A	22.2A	33.34A	66.67A	100A	133.34A	166.67A	200A	
	Annotati- on	The high-g	l grade rated curre	l nt is calculated a	L ccording to 300V	l / voltage; The lo	l w rated current is	calculated base	l d on the 150V vc	l Iltage.		
	Top grade	2.1A	4.2A	6.3A	13.9A	20.84A	41.68A	62.5A	83.34A	104.18A	125A	
laximum urrent	low-end	4.2A	8.4A	12.5A	27.8A	41.68A	83.34A	125A	166.68A	208.34A	250A	
	Annotati- on	The high grade maximum current is calculated according to 300V voltage; The maximum low current is calculated based on the 150V voltage.										
Freque	ncy	45Hz-7	0Hz continuo	ously adjustal	ole							
Pro	oerty											
Input a	idjustmer	nt rate	≤	0.5%F.S. (Re	sistance test))						
Load a	djustmer	nt rate	<	1%F.S. (Resis	esistance test)							
Wavef	orm disto	ortion(THD)	S	ine wave, T⊦	, THD≤2% below 100kVA; 100kVA-300kVA THD≤3%; ≤5% above 300kVA (resistance test)							
Efficier	псу		2	:90%								
Freque	ency stabi	ility	≤	0.02%F.S.								
Voltag	e stability	/	<u> </u>	0.5%F.S.								
Voltage	e crest co	efficient	1	.414±0.05								
Voltag	e unbalai	nce	T	hree-phase	output ≤1Vrr	ms (no load	or balanced	load)				
	difference			oad three-pl	nase balance	e or no-load	±2°					
Three-p	hase volta	ge/phase diff		hree-phase v				se difference	e 0-359.99° a	adjustable		
Noise		- '		65dB(A), use						-		

www.hangyupower.com | Hangyu Power Supply

Voltage output programming accuracy 10.5%ES. Settings Frequency output programming accuracy ±0.0%ES. Voltage setting resolution 0.0% Frequency setting resolution 0.0% Voltage output read-back accuracy ±0.5%ES. Current output read-back accuracy ±0.5%ES. Current output read-back accuracy ±0.5%ES. Voltage output read-back accuracy ±0.5%ES. Voltage read-back resolution 0.01V Current read-back resolution 0.01V Current read-back resolution 0.01V Current read-back resolution 0.01V Current read-back resolution 0.01V Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 1.125% current 15s, 150% current 5s, 200% current 2s, 300% current 5lop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage class: It Pollution level: P2; II equipment Operating ambient temperature -20°C to 65°C Working ambient temperature -20°C to 65°C Working ambient humidity 20%-95%RH, no condensation <	Progr	amming And Readbad	ck Accuracy & Resolu	ution				
Settings Control Control Valage setting resolution 0.01V Prequency setting resolution 0.01Hz Walage setting resolution 0.01Hz 0.01Hz 0.01Hz Walage cutput read-back accuracy 40.5%F.S. 0.01% Current output read-back accuracy 40.5%F.S. Backward Frequency output read-back accuracy 40.01%F.S. Valage read back resolution 0.01W Current road back resolution 0.01Hz 0.01W Current road back resolution 0.01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit 0.02% resolution 0.01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit 0.02% resolution 0.01Hz Protection function Pretection function Pretection function 0.01Hz 0.01Hz Protection function Adjust the output voltage and frequency online Environment is follower output read-back resolution overvoltage class: It: Pollution level: P2: It equipment Operating ambient temperature -20°C to 65°C Vorking ambient temperature -20°C to 65°C Vorking ambient temperature -20°C to 65°C Vorking ambient humidity </td <td></td> <td colspan="2">Voltage output programming accuracy</td> <td>±0.5%F.S.</td>		Voltage output programming accuracy		±0.5%F.S.				
Voltage setting resolution 0.01V Frequency setting resolution 0.01Hz Voltage output read-back accuracy ±0.5%F.S. Current output read-back accuracy ±0.03%F.S. Frequency setting resolution 0.01V Current acal back resolution 0.01V Current macaback resolution 0.01V Current macaback resolution 0.01A Frequency read-back resolution 0.01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 1ss, 150% current 2s, 200% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Protection function Adjust the output voltage and frequency online Environment Indoor use; Installation overvoltage class: II; Pollution level; P2; II equipment Operating ambient temperature -20°C to 65°C Working ambient temperature -20°C to 65°C	Settings -	Frequency output pro	gramming accuracy	±0.01%F.S.				
Voltage output read-back accuracy ±0.5%FS. Current output read-back accuracy ±0.0%FS. Prequency output read-back accuracy ±0.0%FS. Voltage read back resolution 0.01V Current read-back resolution 0.01V Current read-back resolution 0.01V Current read-back resolution 0.01V Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15%, 150% current 5%, 200% current 2%, 300% current 5top output immediately Memory function Parameters of the last run Protection function Adjust the output voltage and frequency online Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment. Operating ambient temperature 0°C to 45°C Vorking ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation, continuous operation Storage condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air <td>Voltage setting resolut</td> <td>ion</td> <td>0.01V</td>		Voltage setting resolut	ion	0.01V				
Backward Current output read-back accuracy ±0.5%E5. Prequency output read-back accuracy ±0.01%ES. Voltage read back resolution 0.01V Current read-back resolution 0.01A Protection Function 0.01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 5s, 150% current 5s, 200% current 2s, 300% current 5top output immediately Memory function Parameters of the last run Protection function Adjust the output voltage and frequency online Environment Indoor use; Installation overvoltage class: II: Pollution level: P2; II equipment Operating ambient temperature -20°C to 45°C Working ambient temperature -20°C to 65°C Working ambient humidity 20%-99%RH, no condensation, continuous operation Storage environment humidity 10%-99%RH, no condensation Altitude Above 2000 meters above salewel the power is reduced by 2% per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters/font air, rear air Transport condition Forceed air cooling, intelligent speed control fan, both sides/front air, rear air		Frequency setting reso	olution	0.01Hz				
Backword Proguency output read-back accuracy ±0.01% FS. Valtage read back resolution 0.01V Current read back resolution 0.01A Protection function 0.01Hz Protection function 0.01Hz Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 5s, 150% current 5s, 200% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environment Indoor use; Installation overvoltage class: It: Pollution level: P2; II equipment Operating ambient temperature -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation Altitude Above 2000 meters above as level, the power is reduced by 2% per 100 meters, or the maximum working ambient temperature Altitude Above 2000 meters above see level, intelligent speed control fan, both sides/front air, rear air Transport condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel		Voltage output read-b	back accuracy	±0.5%F.S.				
Backward Voltage read back resolution 0.01V Current read back resolution 0.01A Frequency read-back resolution 0.01Hz Protection Function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environment Indoor use; Installation overvoltage class; II; Pollution level: P2; II equipment Operating ambient temperature -20°C to 45°C Storage ambient temperature -20°C to 45°C Vorking ambient humidity 20%-90%RH, no condensation, continuous operation Altitude Above 2000 meters above sae 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 attaute of 124 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Une woltage/phase voltage (set value & measurement value, output power display, power face value & working time, current time and date Control Function Output DN		Current output read b	ack accuracy	±0.5%F.S.				
Voltage read-back resolution 0.014 Frequency read-back resolution 0.014 Protection Function 0.014z Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 2s, 200% current 2s, 300% current 5top output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level; P2; II equipment Operating ambient temperature -20°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-95%RH, no condensation Altitude 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, or the maximum working ambient temperature. Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Une voltage/phase voltage (evalue & measured value), current measurement value, output power factor display/ Frequency set value, working time, current time and date	Backward .	Frequency output read	d-back accuracy	±0.01%F.S.				
Interview Description Prequency read-back resolution 0.01Hz Protection Function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature O°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-59%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Alttude 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, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters above sea level, the power is reduced by 2% per 1	read	Voltage read back res	olution	0.01V				
Protection Function Protection Function Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 2s, 200% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level; P2; II equipment Operating ambient temperature -20°C to 45°C Vorking ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation 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, or the maximum working ambient temperature is colling, intelligent speed control fan, both sides/front air, rear air Transport condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display, frequency set value, working time, current time and date <t< td=""><td></td><td>Current read back res</td><td>olution</td><td>0.01A</td></t<>		Current read back res	olution	0.01A				
Protection function Overvoltage, overcurrent, internal overheating, short circuit Overload capacity 125% current 15s, 150% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-99%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maximum working ambient temperature is reduced by 1°C per 100 meters, or the maxinue of 12.0 Cooling condition		Frequency read-back	resolution	0.01Hz				
Overload capacity 125% current 15s, 150% current 5s, 200% current 2s, 300% current Stop output immediately Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator </td <td>Prote</td> <td>ction Function</td> <td></td> <td></td>	Prote	ction Function						
Memory function Parameters of the last run Preset function Adjust the output voltage and frequency online Environmental Condition Indoor use, Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display 7 inches, lCD LCD display, fouch screen Display item Line voltage/phase voltage (set value, & measured value), current tmeasurement value, output power display, power factor display,Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob inpu	Protectior	function	Overvoltage, ov	ercurrent, internal overheating, short circuit				
Preset function Adjust the output voltage and frequency online Environmental Condition Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display item Duever factor display/frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Overload	capacity	125% current 15s	, 150% current 5s, 200% current 2s, 300% current Stop output immediately				
Environmental Condition Environment Indoor use; Installation overvoltage class: II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-99%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment	Memory f	unction	Parameters of the last run					
Environment Indoor use; Installation overvoltage class; II; Pollution level: P2; II equipment Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display, Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Preset fun	ction	Adjust the output voltage and frequency online					
Operating ambient temperature 0°C to 45°C; Choose from -20°C to 45°C Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Envirc	onmental Condition	I					
Storage ambient temperature -20°C to 65°C Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Display Display 7 inches, LCD LCD display, touch screen Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Environme	ent	Indoor use; Insta	allation overvoltage class: II; Pollution level: P2; II equipment				
Working ambient humidity 20%-90%RH, no condensation, continuous operation Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Operating	ambient temperature	0°C to 45°C; Choose from -20°C to 45°C					
Storage environment humidity 10%-95%RH, no condensation Altitude 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 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel Display Display 7 inches, LCD LCD display, touch screen Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustmen Control mode Local control/remote control	Storage ar	mbient temperature	-20℃ to 65℃					
Altitude 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, 0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustmen Control mode Local control/remote control	Working a	mbient humidity	20%-90%RH, no condensation, continuous operation					
Altitude ambient temperature is reduced by 1°C per 100 meters;When not in operation, it can reach an altitude of 12,0 Cooling condition Forced air cooling, intelligent speed control fan, both sides/front air, rear air Transport condition Road transport Control Panel	Storage er	vironment humidity	10%-95%RH, no condensation					
Transport condition Road transport Control Panel Display 7 inches, LCD LCD display, touch screen Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustmen Control mode Local control/remote control	Altitude		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					
Control Panel Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Cooling co	ondition	Forced air cooling, intelligent speed control fan, both sides/front air, rear air					
Display 7 inches, LCD LCD display, touch screen Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display,Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Transport	condition	Road transport					
Display item Line voltage/phase voltage (set value & measured value), current measurement value, output power display, power factor display, Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustmen Control mode Local control/remote control	Contr	ol Panel						
Display item power factor display, Frequency set value, working time, cumulative working time, current time and date Control function Output ON/OFF/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Display		7 inches, LCD LC	CD display, touch screen				
Mode of operation Key input/LCD input/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment Control mode Local control/remote control	Display ite	em						
Control mode Local control/remote control	Control fu	inction	Output ON/OFF	/Lock keyboard and touch lock /Reset Restart/reset/setting/status indicator				
	Mode of	operation	Key input/LCD in	put/shuttle knob input (outer ring coarse adjustment/inner ring fine adjustment)				
Programming function Step/ladder/gradient	Control m	node	Local control/re	mote control				
	Programm	ning function	Step/ladder/gra	dient				

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







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







Size

.

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

600mm



-

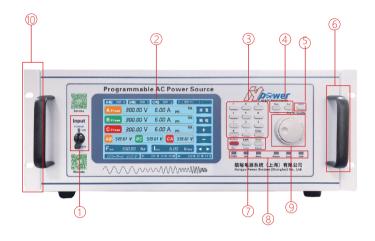
2

接线时 拆掉此盖 920mm

800mm

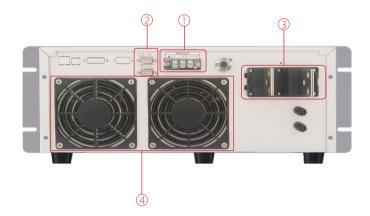
Display And Control Panel

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
- ③ Status indicator
- $\textcircled{\sc 0}$ Multi-stage shuttle adjustment knob (inner ring fine
- adjustment/outer ring coarse adjustment) (1) 19-inch standard rack mounting holes

Rear Panel

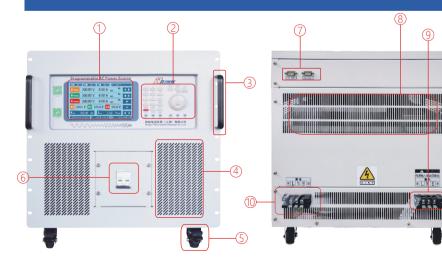


① AC input terminal
② RS-485 & RS-232 communication interface
③ AC output terminal
④ Heat dissipation outlet

Panel

09

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
- ⑦ Communication interface
- ⑧ Heat dissipation outlet
- (1) AC output terminal

Display And Control Panel

A相 300 V B相 300 V C相 300 V F: 300 Hz V۵ 300.00 V 8.00 A PF: 设置 VA *300.00* V 8.00 A PF: **B** Phase 编程 3-VA 5.00 A PF: 300.00 V -(5) C Phase AB 519.61 V BC 519.61 V CA 519.61 V **(4)** Iset Fset 5.00 Vrms < > 01-01-12:12:12 C: 999 D 23 H 59 M W: 999 H 59 M 59 S 6 (7)

Display Interface

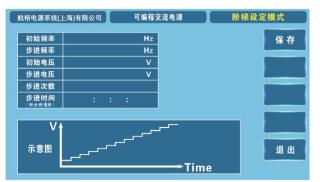
Display Interface

航裕电源系统(上海)有限公司	可编程交流电源	
电压 VOLTAGE	Vrms	设置
电流 CURRENT	Arms	编程
功率 POWER	KW	+
功率因数 PF		- 1
Fset H2	v V _{set} Vrms	
C 2019–01–01 12:12:12	: 999 D 23 H 59 M W: 999 H	59 M 59 S

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

- ① Three-phase voltage
- ② Product frequency
- ③ Three-phase voltage and current display area
- ④ Frequency/voltage setting value
 - ⑤ Function setting area
 - 6 Current time
- ⑦ Cumulative running time
- This running time
 A state of the state of the

A相	B相 双相输	出电源 F:
A Phase	V	A 设置
	V	编程
B Phase	V	A +
АВ	V	
Fset	Hz Vset	Vrms 🗸 🕨
	C: D	H M W: H M S

Main interface of the dual phase power supply

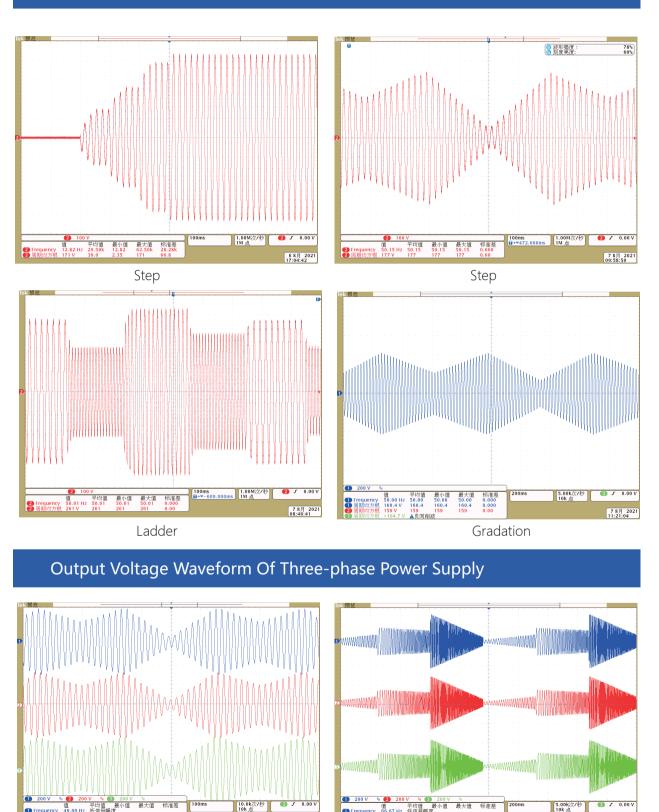
航裕电流	源系统(上海)有限公司	可编程交流电源			步阶设	定模式
步号	频 率 (Hz)	电压(V)	运行时	间(Hi	M:S:mS)	起始步
			:	:	:	
			:	:	:	结束步
					:	
			:		:	循环次数
			:	:	:	
			:	:	:	保存
			:	:	:	
			:	:	:	退出
			:	:	:	(上一页
			:	:	:	下一页

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

步号	频 率 (Hz)	电压(V)	运行时间(时:分:秒:毫秒)	起始步
	起			
	ш			结束步
	起			
	ш			循环次数
	起			
	ш			保存
	起		: : :	
	ш			退出
				[上一页

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

Measured Waveform



78月202 11:00:29

Output Voltage Waveform Of Single-phase Power Supply

Three-phase step

Three-phase gradient

🚯 J 0.00 V

78月2021 11:16:52

5.00k次/秒 10k 点

www.hangyupower.com | Hangyu Power Supply

49.99 Hz 204.8 V 195 V

Cooperative Customers (Part)

Aerospace & Defense Military Research Lnstitute





China Aerospace

Aerospace science Aviation industry and engineering

CASC 804 (Shanghai Aerospace Electronic Communication Equipment Research Institute)

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

CASC 803 (Shanghai Aerospace Control Technology Institute)

CASC 805 (Shanghai Aerospace System Engineering 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 307 Factory (Aerospace Chenguang Co., LTD.)

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

33 CASIC (33 Aerospace Science and Industry Institutes)

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

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

Chinese People's Liberation Army

4724 Factory (Shanghai Haiying Machinery Factory)

CASIC 206 (Beijing Machinery and Equipment Research Institute)

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

AVIC 615 (Aeronautical Radio Electronics Research Institute of China)

CASC 811 (Shanghai Space Power Research Institute)

CASC 808 (Shanghai Precision Measurement and Testing Institute)

CASC 800 (Shanghai Aerospace Precision Machinery Research Institute)

China Air Development







China Electrical **Engineering Group** China Shipbuilding Corporation

China Shipbuilding Industry Corporation

AVIC 118 Factory (Shanghai Aviation Electric Appliance Co., LTD.) AVIC 181 Factory (Wuhan Aviation Instrument Co., LTD.) AVIC 607 Institute (China Leihua Electronic Technology Institute) 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 (Naniing 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.)

Commercial Aviation





上海電器科學研究所(集团)有限公司

国家电器产品质量监督检验中心

长春市产品质量监督检验院

Shanghai Electrical Apparatus Research Institute (Group) Co., Ltd.

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



12

Client

Scientific Research & Third Party Quality Inspection Agency



South Sea Fleet

East China Sea Eleet North Sea Fleet

Navy Plant 701 / Plant 702

Unit 95861 (Empty Base 1)

Technical Institute of Physics and Chemistry (Beijing) Institute of Urban Environment (Xiamen)

Electrotechnical Research Institute (Beijing)

Institute of Applied Physics (Shanghai)







Rockwell Collins



Guangzhou Aircraft Maintenance Engineering Co ITD

GAMECO

SEARI

雷斜

Beijing Aircraft Maintenance Engineering Co., LTD



Cooperative Customers (Part)

Military Academies & Local Universities





National University of Defense Technology



Beijing Institute

of Technology

大要

Aerospace engineering

university

Beijing University of Aeronautics and Astronautics



University of Science and Technology of China



of Science and Technology)

HUAWEI Huawei

中国中车

CRRC

Hust (Huazhong University North China Electric

High-tech R&D Enterprise

Tsinghua University



Power University

法拉电子 FARATRONIC

Xiamen fara

Ingenuity for life

SIEMENS

Siemens

Bosch power tools





Zhejiang University of Technology



University

Harbin Engineering

University





Engineering

Nanjing University of



Dalian Naval Academy

Nanjing University of





Naval Aeronautical University



Northwestern Aeronautics and Astronautics Science and Technology Polytechnical University



Tianjin University Hust (Huazhong University of Science and Technology)



South China University of Technology

Peking University. Shanghai Jiao Tong

Army Engineering

University

Harbin Institute of

Technology

Beijing University of

Technology

Panasonic

Panasonic

ABB

「F GREE ねり

Gree Electric Appliances

NGUNXIN

群苮微电子

Group core

Microelectronics

BMW Brilliance

Huichuan



EPCOS

Epcos

Schneider

Schneider

CHEMCHINA

桂林橡胶机械有限公司

Guilin rubber

machinery factory

Hangzhou Zhongsi

Electric

University





Teko

Noalk

诺雅克

国家电网 STATE GRID

南瑞集团公司

The Chint Noyak

Guodian Nanrui

Firstack

飞仕得科技

Fexide

Zhejiang University

Dalian Maritime University

Honeywell Weidmüller 🗲 Weidmuller Honeywell HONGFA



apparatus

client

13



China Railway Rolling Stock

Corporation



Hilti





Read core Technology Willing to create science a nd technology



China Automotive

Research Institute

Ulai



Heavy duty Automobile Research

and Development Corporation





Hongqi Automobile



Saic Motor Corporation

Saic Volkswagen

SAIC VOLKSWAGEN

Xiamen Hongfa

Shanghai Electric

INVENTCHIP

Shanghai Zhanxin

上海电气





INOVANCE

Shanghai Tongmin vehicle

Chinese Express Nind era



American PI













United New Energy

www.hangyupower.com | Hangyu Power Supply

BYD



Official wechat: hypower-cn



Contact us

Hangyu Power System (Shanghai) Co., Ltd

Mobile/Whatsapp: +8613801800699

Fax: +86-21-67285228-8009

Email:sales@hangyupower.com

neo@hangyupower.com

Address: Building B, 11th Floor, No. 1698 Minyi Road, Songjiang District, Shanghai.PRChina

website:www.hangyupower.com

©Hangyu Power Technologies, 2024

Hangyu Power AC Power Supply Product Manual, version 06.00, february 2024 The warranty period of all standard products in this manual is three years, except non-standard products All technical data and instructions are based on the actual product If there is any change, Hangyu Power has the final interpretation right

Authorized distributor: