HY-BP Series High Speed Power Supply for Automotive Electronice Test





Bipolar broadband, high-speed, high current, and high voltage



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Product Features

- Output voltage: maximum -100V~+100V
- Output current: 0~±500A
- Output power: 200W~10kW
- Output broadband: DC~20kHz/50kHz/100kHz/150kHz/ 200kHz/300kHz/500kHz (CV mode)
- Timing function
- 内阻可调 (10mΩ-500mΩ)

■ 任意波编辑功能,内置波形适用于: ISO16750-2; ISO7637.2; GB28046.2; LV124; LV148; SMTC3800001; VW80000;

GS95024-2; GMW3172; ISO/DIS21780.

- Unipolar/bipolar function
- Adopting "new linear technology" to achieve low ripple/low noise
- \blacksquare High speed response speed, voltage response time \leq 10 μ S
- Type of load used: inductive load, capacitive load
- 16 bits D/A High precision converter with precise output
- 16 bits A/D High precision converter for more accurate read back

HY-BP picture album



The HY-BP series of automotive electronic testing high-speed power supplies have undergone comprehensive innovation and upgrading,promote Product accuracy, added constant current function, adjustable internal resistance range of 10m Ω -500m Ω , optional Industrial computer,Greatly improve the efficiency of automotive electronic testing.

in addition, New and old customers who purchase this series of power supplies enjoy cost reduction and efficiency increase in the later stage of the product Services (product expansion, software upgrade).

The HV-BP series is a type of device that has no positive or negative pole switching at the output end and can continuously pass through zero points, A bipolar DC regulated power supply with bidirectional variable positive and negative poles. Through four quadrant action, achieve A testing method that can provide both power as a power source and absorb power as a load.

Application Area

This power supply can be applied to vehicle electrical power supply variation experiments, secondary battery charging and discharging Experiments, simulated battery charging and discharging experiments, constant current source for pulse electroplating, ripple superposition experiments Verification, DC motor life test, constant current source for generating magnetic field, motor, large capacity capacitor Characteristic testing of leakage switches, solenoid valves, and coils.

Used as a testing power supply and load simultaneously, with diverse uses.

 Vehicle mounted electrical equipment testing(Car central control box, car generator, steering equipment) Motor, onboard radar system, DC motor/DC-DC converter, wiper, etc.)

- Vehicle mounted electrical components testingSensors, solenoids,
- and connections for the power circuit Devices, relays, car fuses, lights, etc.)
- Wireless power supply
- Magnetic drive(Magnetic flux testing, B-H curve testing, etc.)
- Power supply for magnetic field generation(Helmholtz coils, etc.)



Response time of edge and falling edge≤10µS₀ The actual measurement is shown in the figure above (some models)₀

Actual Measurement Display



Measure the accuracy of 20V under full scale conditions, The deviation is less than 0.01, and the accuracy reaches level 0.05.

interface (isolated type)

Product	Selection In	structions			
Product series	Output voltage	Output current	Output broadband		
HY-BP	40	10	500k		
Selection	examples :				
 Selection examples: Model: HY-BP 40-10-500K 					
Descripti	ion: Output voltage ±	40V, output			
current ± 10	A Output bandwidth	n DC~500kHz			

*Only when the equipment operates continuously at the specified operating temperature for more than 30 minutes can all technical indicators be guaranteed。

HY-BP Series Product Selection And Parameters

This series of products can choose a wide frequency band for power output: 0-50kHz/0-100kHz/0-200kHz/0-300kHz/0-400kHz/0-500kHz

If there is no model in the selection table that meets your needs, it can be proposed separately for special customization.

Output Voltage-20V~+20V Series Power Selection								
Models	Output voltage	Output current	Output power		Models	Output voltage	Output current	Output powe
HY-BP 20-10	±20V	±10A	200W		HY-BP 20-100	±20V	±100A	2kW
HY-BP 20-20	±20V	±20A	400W		HY-BP 20-120	±20V	±120A	2.4kW
HY-BP 20-30	±20V	±30A	600W		HY-BP 20-150	±20V	±150A	3kW
HY-BP 20-40	±20V	±40A	800W		HY-BP 20-200	±20V	±200A	4kW
HY-BP 20-60	±20V	±60A	1.2kW		HY-BP 20-500	±20V	±500A	10kW
HY-BP 20-90	±20V	±90A	1.8kW					

Output Voltage-30V~+30V Series Power Selection								
Models	Output voltage	Output current	Output power		Models	Output voltage	Output current	Output power
HY-BP 30-10	±30V	±10A	300W		HY-BP 30-60	±30V	±60A	1.8kW
HY-BP 30-13.4	±30V	±13.4A	400W		HY-BP 30-100	±30V	±100A	3kW
HY-BP 30-20	±30V	±20A	600W		HY-BP 30-134	±30V	±134A	4kW
HY-BP 30-26.7	±30V	±26.7A	800W		HY-BP 30-200	±30V	±200A	6kW
HY-BP 30-40	±30V	±40A	1.2kW		HY-BP 30-267	±30V	±267A	8kW

HY-BP series Product Selection

		Output V	oltage-40V~-	+40\
Models	Output voltage	Output current	Output power	
HY-BP 40-7.5	±40V	±7.5A	300W	
HY-BP 40-10	±40V	±10A	400W	
HY-BP 40-15	±40V	±15A	600W	
HY-BP 40-20	±40V	±20A	800W	
HY-BP 40-30	±40V	±30A	1.2kW	
HY-BP 40-45	±40V	±45A	1.8kW	
HY-BP 40-50	±40V	±50A	2kW	

V Series Power Selection							
Models	Output voltage	Output current	Output power				
HY-BP 40-60	±40V	±60A	2.4kW				
HY-BP 40-75	±40V	±75A	3kW				
HY-BP 40-100	±40V	±100A	4kW				
HY-BP 40-150	±40V	±150A	6kW				
HY-BP 40-200	±40V	±200A	8kW				
HY-BP 40-250	±40V	±250A	10kW				

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Output Volta	ge-60V~+60V	Series Power	Selection
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Models Output voltage		Output current	Output power
HY-BP 60-6.7	±60V	±6.7A	400W
HY-BP 60-10	±60V	±10A	600W
HY-BP 60-13.4	±60V	±13.4A	800W
HY-BP 60-20	±60V	±20A	1.2kW
HY-BP 60-30	±60V	±30A	1.8kW
HY-BP 60-33.5	±60V	±33.5A	2kW

Models	Output voltage	Output current	Output power	
HY-BP 60-40	±60V	±40A	2.4kW	
HY-BP 60-50	±60V	±50A	3kW	
HY-BP 60-67	±60V	±67A	4kW	
HY-BP 60-100	±60V	±100A	6kW	
HY-BP 60-133.3	±60V	±133.4A	8kW	
HY-BP 60-167	±60V	±167A	10kW	

	Output Voltage-80V~+80V Series Power Selection									
	Output voltage	Output current	Output power		Models	Output voltage	Output current	Output power		
-5	±80V	±5A	400W		HY-BP 80-30	±80V	±30A	2.4kW		
-7.5	±80V	±7.5A	600W		HY-BP 80-37.5	±80V	±37.5A	3kW		

HY-BP 80-7.5	±80V	±7.5A	600W	HY-BP 80-37.5	±80V	±37.5A	3kW
HY-BP 80-10	±80V	±10A	800W	HY-BP 80-50	±80V	±50A	4kW
HY-BP 80-15	±80V	±15A	1.2kW	HY-BP 80-75	±80V	±75A	6kW
HY-BP 80-22.5	±80V	±22.5A	1.8kW	HY-BP 80-100	±80V	±100A	8kW
HY-BP 80-25	±80V	±25A	2kW	HY-BP 80-125	±80V	±125A	10kW

Output voltage-100v~+100v Series Power Selection								
Models	Output voltage	Output current	Output power		Models	Output voltage	Output current	Output power
HY-BP 100-4	±100V	±4A	400W		HY-BP 100-24	±100V	±24A	2.4kW
HY-BP 100-6	±100V	±6A	600W		HY-BP 100-30	±100V	±30A	3kW
HY-BP 100-8	±100V	±8A	800W		HY-BP 100-40	±100V	±40A	4kW
HY-BP 100-12	±100V	±12A	1.2kW		HY-BP 100-60	±100V	±60A	6kW
HY-BP 100-18	±100V	±18A	1.8kW		HY-BP 100-80	±100V	±80A	8kW
HY-BP 100-20	±100V	±20A	2kW		HY-BP 100-100	±100V	±100A	10kW

Models

HY-BP 80



22 Arbitrary waveforms

Any Wave Editing Function

The HY-BP series is capable of achieving sine wave, square wave, and triangular wave Based on this, there are 22 built-in waveform elements. Implement any of 22 waveforms Edit, save, and recall. And can set amplitude, frequency, and initial Phase, sweep frequency, square wave. Moreover, the timing function can be applied to various waves Set 22 programs from 1 Step to 200 Step.

Three basic waveforms



Sinusoidal waveform Triangular waveform

Square waveform



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Power Test Items

1. ISO16750-2 Test Items

- Long term overvoltage
- Transient overvoltage
- Instantaneous low voltage
- Jump voltage start
- Load drop
- Generator superimposed ripple voltage
- Slow decrease/increase in working voltage
- Slow decrease/rapid increase in power supply
- RESET TEST
- Pulse voltage at engine start
- Reference grounding and power supply



1.1 Generator Superimposed Ripple Voltage

Simulate the ripple voltage of the generator and superimpose the residual AC components on the power supply circuit of the electrical system for testing during generator operation. This test simulates this working condition.

Generator Ripple Voltage Superposition Test Parameters					
Working mode of the tested sample	Working mode ll.b				
Input Resistance RIn	50-100mΩ				
Test time	30 min				
Frequency range	50Hz-25kHz				
Duration	120s				
Wave form	Triangular wave, logarithmic type				
Peak-to-peak upp	4V				
Sample quantity	At least 6 pieces				





Display diagram of generator superimposed ripple voltage interface





Pulse superimposed voltage.

1.2 Long Term Overvoltage

Test the resistance of parts under long-term overvoltage. Simulate the situation of overvoltage caused by the failure of the generator control module during driving.

Long term overvolta	age test parameters.	1 5.007/ 2 3	4	-74.6Us	7.uuUs7	停止	
Working mode of the tested sample	Working mode ll.b					1	※集 标准模式 5.00kSa/s
Working mode	60 min						世 地理 DC BW 10 DC 10
Continuous test voltage	18V						DC 10
Test temperature	T _{max} -20°C						
Number of test cycles	1					_	
Sample quantity	At least 6 pieces	通道 1 茶单					

1.3 Transient Overvoltage

Test simulation when turning off high-power loads or accelerating rapidly for a short time Short term overvoltage occurs under certain conditions.

Instantaneous Overvoltage Test Parameters		
Working mode of the tested sample	Working mode ll.b	
UBmin	16V	
U1	17V	
UBmax	18V	
tr	1ms	
tr	1ms	
t1	400ms	
t2	600ms	
	1、Short time test: 3 pulses within 10 seconds	
Number of cycles	2、Life test: 1000 test pulses Impulse, with a time interval of 9 seconds	
Sample quantity	At least 6 pieces	



Schematic diagram of instantaneous overvoltage test



1.4 Instantaneous Low Voltage

Test and simulate short-term low voltage when turning on high-power loads Under voltage condition occurs.

Instantaneous Overvoltage Test Parameters			
Working mode of the tested sample	Working mode II.b		
UBmax	10.8V		
UBmin	9V		
Tr	1.8ms		
Tr	1.8ms		
Tpruf	500ms		
Number of cycles	1		
Sample quantity	At least 6 pieces		





1.5 Jump Voltage Start

Simulate the working conditions of starting the vehicle with an external power source. Maximum measurement The test voltage can come from an external commercial vehicle power source for start-up.

Jump Voltage Start Test Parameters			
Working mode of the tested sample	Working mode ll.b		
UBmax	26V		
UBmin	13.5V		
Tr	60s		
Tpruf	60s		
Number of cycles	1		
Sample quantity	At least 6 pieces		



1.6 Load Drop

Due to the inherent characteristics of the generator, in larger electrical systems After the load is turned off, overvoltage pulses will be generated real The verified waveform is used to simulate this working condition.

Load Drop Test Parameters			
Working mode of the tested sample	Working mode ll.b		
UBmax	26V		
UBmin	13.5V		
Tr	10ms		
Ts	300ms		
Interval time	1min		
Number of cycles	10		
Sample quantity	At least 6 pieces		



1.7 Slow Decrease/Increase In Working Voltage

Simulate slow voltage of the vehicle battery during slow charging and discharging process A situation of slow ascent and descent.

Test Parameters For Slow Decrease/ Slow Increase Of working Voltage			
Working mode of the tested sample	Test 1: T.30 on and KL15 on Test 2: T.15 on		
Start voltage	UBmax		
Voltage change rate	0.5V/min		
Holding voltage	UBmin		
HOLD (At U _{Bmin})	Until the event record of the part is read out		
Minimum voltage	0V		
End voltage	UBmax		
Number of cycles	Working mode II. b 1 cycle		
Number of cycles	Working mode II.a 1 cycle		
Sample quantity	At least 6 pieces		



1.8 Slow Decrease/Rapid Increase In Working Voltage

This experiment simulates a slow decrease in battery voltage to 0V, but Due to the sudden increase in external power supply, the actual operating conditions were affected.

Test Parameters For Slow Decrease/ Rapid Increase Of Working Voltage			
Working mode of the tested sample	Test 1: T.30 on and KL15 on Test 2: T.15 on		
Start voltage	UBmax		
Voltage change rate	0.5V/min		
Holding voltage	UBmin		
HOLD (At U _{Bmin})	Until the event record of the part is read out		
End voltage	U _{Bmax}		
OV HOLD	At least 1 minute to ensure complete discharge of internal capacitance		
Tr	≤0.5s		
Number of cycles	The sample should be at least at T.15 and T.30 conditions Test once each		
Sample quantity	At least 6 pieces		



諸除測量値

设置

湖曼菜单

类型:

添加 測量

Measured drawing



BP

1.9 Reset Test

Simulate the environment of part reset behavior and reset the parts Conduct behavior testing. Boundary conditions for testing (such as assembly, connection A detailed description of the system must be provided.

Reset test parameters		
Working mode of the tested sample	Working mode ll.b	
Uth	6V	
△U1 (U _{Bmax} to 6V)	0.5V	
△U2 (6V to 0V)	0.2V	
T0-DUT on	The time should be greater than 10 seconds until the tested sample Fully restore functionality (all system functions are heavy New startup with no errors)	
T1-Test Sequence 1	5s	
T1-Test Sequence 2	100ms	
Rise/fall time	100ms	
Number of cycles	1	
Sample quantity	At least 6 pieces	



Measured drawing

1.10 Pulse Voltage During Engine Start (Hot Start)

Hot Qi Artery Pulse Test Parameters			
Parameter	Test pulse "short time"	Test pulse "long duration"	
Uв	11.0)V	
UT	7.0	V	
Us	8.0	V	
Ua	9.0	V	
T50	≥1(Oms	
Tf	≤1ms		
T4	15ms		
T ₅	70ms		
T ₆	240ms		
T ₇	70ms		
T8	600ms		
Tr	≤1ms		
Ri	0.01Ω		
Interval between two cycles	2s 20s		
Number of test cycles	10 100		





1.11Pulse Voltage During Engine Start (Cold Start)

During the engine start-up process, the battery voltage will briefly drop to a very low level and then slightly increase. Most parts are activated before startup, Inactive during startup, active again after successful startup.

This test is to verify whether the parts meet the requirements under startup conditions. The entire vehicle will start under different conditions, such as cold start and hot start. For the sake of fullness Different working conditions require the use of two different test sequences to test the parts. The part must meet all test sequences.

	Cold Start Test Pa	rameters	U Cycle L T. 50 OFF T. 50 ON TE 50 OFF T. 75 ON T. 75 OF T. 75 ON
Parameter	Test pulse "normal"	Test pulse 'severe'	
Uв	11.0V	11.0V	
UT	4.5V	3.2V	
Us	4.5V	5.0V	
UA	6.5V	6.0V	UT I
Ur	2V	2V	t _r t ₄ t ₅ t ₆ t ₇ t ₆ t ₇ t
Tf	≤1ms	≤1ms	Schematic diagram of cold start mode
T4	Oms	19ms	100X 2014A, MR5461355 fri Jun 251329232021
T ₅	Oms	≤1ms	
T ₆	19ms	329ms	- 水本 = - ちのR/程式 5.00kSa/s
T ₇	50ms	50ms	世 通道 =
T8	10s	10s	UC 10.01 DC 10.01 DC 10.01
Tr	100ms	100ms	
F	2Hz	2Hz	
Ri	0.01Ω	0.01Ω	
Interval between two cycles	2s	2s	+15.0000/ DC_BW +0.0V +0.0V +0.0V 01:28 PM Jun 25, 2021 DC 10.0.1 DC 10.0.1 Jun 25, 2021
Number of test cycles	10	10	Measured drawing

1.12 Unipolar Mode

This is a unique feature of this product. The voltage is in a single polarity, hence it is called a unipolar mode. Generally, the current of a unipolar power supply only flows in a single direction, but In the unipolar mode of HY-BP, the current can flow in both directions (sink, source).

According to the following figure, in the cross plot of voltage (vertical axis) and current (horizontal axis), it can operate in the first and second quadrants. For safety, in bipolar mode In the formula, the unipolar mode can work in all fields of the second quadrant.



1.13 Reverse Polarity Test

Simulate the resistance of DUT to reverse polarity during jump start of the battery Connection. Reverse polarity may occur multiple times without causing component damage Test the resistance of electronic and electrical components under reverse polarity of input voltage.

Testing voltage: -14 V Test time : 2 min

DUT

1

S1a

2

U_BO-

KI.31



1.14 Ground Offset (Option Supported)

If the part has several sets of power inputs, potential differences may occur between different power sources. +/-1 V deviation between the ground of each power supply In poor cases, it is necessary to ensure that the parts function properly.

TE

1

Ground Offset Test Parameters				
Working mode of the tested sample	Working mode II.b			
Source voltage	1V			
Number of cycles	Arrangement of all switch position			
Sample quantity	At least 6 pieces			

В

S

Circuit schematic ground offset

U



12V Shifting-1V



BP

Simulate the interruption of wires on a single pin. Considering that the duration of interrupts may vary greatly, two different types of tests should be applied Simulate waveform (poor contact or permanent open circuit).			
two different types of tests should be applied Simulate waveform (poor contact or permanent open circuit).			
	Pin Interruption Test Parar	neters	
Sample working mode	Working mode II.a与II.c The test must cover all relevant power modes (e.g.,T.15,T.30,T.87)		
Z1	Scenario 1: Pin connection		
Z2	Scenario 2: Pin disconnected		
Tr	≤ (0.1*t1)		
Tf	≤ (0.1*t1)		
Number of cycles	One requirement applies to two testing methods and their final status: 3 cycles II.a 3 cycles II.c Each test needs to be evaluated separately		
Sample quantity	At least 6 pieces		
Test 1	Each pin is removed for 10 seconds before resetting again		
	To simulate poor contact, apply a pu	Ilse group to each pin。	
	The number of pulses t2 included in a pulse group	4000	
Number of cycles	A	burst	
	T1	0.1ms	
	Τ2	1ms	
	Т3	10s	



Load shedding is the energy pulse generated by the generator when supplying power to on-board devices after the battery is disconnected for certain reasons in a simulated automotive electrical system Charge. The waveform of load 5a without any suppression devices, 5b is the waveform after adding surge suppression devices, and 5a and 5b output pulse width Maintain consistency in degree.

Simulate that the AC generator is generating charging current while disconnecting the battery, while the generator circuit is still Transient phenomena with other loads
Simulate the transient phenomenon that occurs in the appealed case due to the presence of suppression devices in the generator circuit
Testing of ISO 7637-2 and other related standards
 Built in 60V/30A coupled decoupling network (CDN), can be used separately Both output voltage and interval time can operate in step mode

Td



∆V: 78.621



n+: 103 50

测量关系



Pulse 5b Actual measurement

电压&时间

	Pulse 5a (Testing Parameters)						
	12V system	24V system					
Output voltage (Us)	-10~-800V	10~800V					
Output resistance (Ri)	0.5~8Ω	1~8Ω					
Pulse width (Td)	40ms、100ms、200ms、350ms、400ms	100ms、200ms、350ms、400ms					
Rise time (Tr)	10ms						
Interval time (T1)	60~999ms						
Pulse count	1~60000						
Size	(W) 495mm* (D) 550r	mm* (H) 285mm					
Weight	about 38	¢g					
	Pulse 5b (Test Para	ameter)					
Suppression voltage (Us*)	10.0~100.0V	10.0~200.0V					
Size	(W) 495mm* (D) 55	0mm* (H) 195mm					
Weight	about 1	1kg					

Technical Parameter

20V Series Technical Parameters

Models			HY-BP 20-	-10	HY-BP 20-20	HY-BP 20-30	HY-BP 20-40	HY-BP 20-60	HY-BP 20-90	HY-BP 20-100		
Rated output	t voltage		±20V		±20V	±20V	±20V	±20V	±20V	±20V		
Output curre	ent		±10A		±20A	±30A	±40A	±60A	±90A	±100A		
Rated output	t power		200W		400W	600W	800W	1200W	1800W	2000W		
	Setting ra	range	CV Optio CC Optio	nal ir nal in	n mode: 0~50 n mode: 0.011).00kHz\0~100.0 Hz~10.00kHz	0kHz\0~200.00k	(Hz\0~300.00kH	lz\0~400.00kHz\	,0~500.00kHz		
	Set resol	lution					0.01Hz					
AC Frequency	Setting a	accuracy				±100p	opm, T=(18°C-	~28°C)				
	Sweep fre	requency				L	inear, logarithm	nic				
	Sweep ti	ime				100µs-1000	s (resolution ra	atio 100µs)				
	Туре				Sine wave, so	quare wave, tria	ingular wave, a	rbitrary wavefo	orm (22 types)			
AC Waveform	Start pha	lase					0~359°					
	Square wa	ave DUTY	0.1%~99.9	0.1%~99.9%(F < 100Hz),1%~99%(100Hz≤F < 1kHz),10%~90%(1kHz≤F < 10kHz),50% regular(10kHz < F								
CV Mode	le											
	Setting r	range (bi	polar)				0~±20V					
DC Voltage	Setting ra	ange (sir	ngle pole)				0~20V					
	Tempera	ature coe	fficient			±1()0ppm/°C (rar	ige)				
AC Voltage	Setting ra	range					0~20V					
Voltage resp	onse time	e (see note 2	2、3)	(Visibl Frequ Frequ	le annotations1) Jency characteris Jency characteris	stic (TYP value) DC stic (TYP value) DC	~150kHz, voltage ~100kHz, voltage	response time: 2. response time: 3.	3 µ s. 6.7 µ s. 23 µ 5 µ s. 10 µ s. 35 µ :	s. 67 μ S optional s. 100 μ S optional		
 Note 1: According to the external model input voltage, the amplitude ratio of the output current is -3dB frequency (reference frequency 1Hz, reaction time 3.5 μ s. Rated load) Note 2: Rising edge time/falling edge time (rated load, excluding output ON/OFF). The frequency characteristics will also change according to the set reaction time (frequency range=0.35/rising edge time). Note 3: Rise time: When the output voltage changes from 0V to the rated voltage, the change in output voltage is 10% to 90% of the rated time. Falling edge time: When the output voltage to 0V, the output voltage The change in pressure is between 90% and 10% of the rated time. 												
CC Mode												
	Setting rai (bipolar)	ange	0~±10A		0~±20A	0~±30A	0~±40A	0~±60A	0~±90A	0~±100A		
DC Current	Setting ran (single pol	inge ble)	0~±10A		0~±20A	0~±30A	0~±40A	0~±60A	0~±90A	0~±100A		
	Tempera	ature ent				±1()0ppm/°C (rar	nge)				
AC Current	Setting r	range	0~20Ap	р	0~40App	0~60App	0~80App	0~120App	0~180App	0~200App		
Current reac (Visible annotatio	tion time		(Visible anno Frequency Frequency	chara chara	^{s4)} acteristic (TYP acteristic (TYP	value) DC~5kHz value) DC~10kH	z, voltage respo Iz, voltage respo	nse time: 70 μ s onse time: 35 μ	s. 100 μ s. 350 μ s. 100 μ s. 350 μ	s. 1ms optional 1 s. 1ms optional		
Note 4: According The freque Note 5: Rising edg Note 6: Rise time: ' current ch	to the externa ncy characteris e time/falling When the out anges from th	hal model in istics will cha gedge time tput current he rated cu	put voltage, th nge based on (rated load, ex changes fron rrent to 0A, th	he amp the Imp xcludin n 0A tc ne outp	olitude ratio of the pedance value of th g output ON/OFF the rated current out current The var	output current is -3 ne load. The Imperfor). According to the c , the change in outp iation of flow is betw	dB frequency (refere mance value of the l lifferent times of loa ut current is 10% to veen 90% and 10% o	ence frequency 100H oad increases The tir d Impedance, it will 90% of the rated tir of the rated time.	Iz, reaction time 35 ne-frequency charact also change. ne. Falling edge time	a s. Rated load). eristics decrease. 2: When the output		
Accuracy												
	DC				±	(0.05% reading	1 +0.05% range	e),l=(18℃~28	8°C)			
Voltage measurement	AC DC+AC				± (0.05 ± (0.59	5% reading +0.0 % reading +0.5°)5% range) % range)(10	(5Hz-10kHz) ,)kHz-500kHz)	T=(18°C~28°C) ,T=(18°C~28°C))		
	DC				±	(0.5% reading	+0.5% range),T=(18°C~28°	°C)			
Current measurement	AC DC+AC		± (0.5% reading +0.5% range) (5Hz-10kHz) ,T=(18°C~28°C) ± (5% reading +10% range) (10kHz-300kHz) ,T=(18°C~28°C)									
Resolution F	Ratio											
Voltage setting	DC	C、AC、D	C+AC	C+AC 0.001V (U≤60V)								
Current setting	urrent setting DC、AC、DC+A					0.001A (I≤6	0 A), 0.01A (60) DA < I≤500A)				
Voltage read ba	back DC、AC、DC+AC 0.001V (0.001V (U≤60 V	/)				
Current reading	back D	C、AC、D	C+AC			0.0014 (1<6		0A < I<500A)				

20V-30V Series Technical Parameters

Models			HY-BP 20-	-120	HY-BP 20-150	HY-BP 20-200	HY-BP 20-500	HY-BP 30-10	HY-BP 30-13.4	HY-BP 30-20	
Rated output	t voltage		±20V		±20V	±20V	±20V	±30V	±30V	±30V	
Output curre	nt		±120A		±150A	±200A	±500A	±10A	±13.4A	±20A	
Rated output	t power		2400W	/	3000W	4000W	10kW	300W	400W	600W	
	Setting ra	ange	CV Optic CC Optic	onal i onal i	in mode: 0~5 in mode: 0.01	0.00kHz\0~100.0 Hz~10.00kHz	10kHz\0~200.001	kHz\0~300.00kH	Hz\0~400.00kHz\	,0~500.00kHz	
	Set resol	ution					0.01Hz				
AC Frequency	Setting a	iccuracy	r			±100	opm, T=(18°C-	~28°C)			
	sweep fre	equency				L	inear, logarithm	nic			
	Sweep tii	me				100µs-1000	s (resolution ra	atio 100µs)			
	Туре				Sine wave, se	quare wave, tria	angular wave, a	rbitrary wavefo	orm (22 types)		
AC Waveform	Start pha	ase					0~359°				
	Square wa	ive DUTY	0.1%~99.9	9% (I	F<100Hz), 1%	~99% (100Hz≤F	<1kHz) , 10%~9	90% (1kHz≤F<1	0kHz) , 50% reg	ular (10kHz < F)	
CV Mode	/ Mode										
D.C.V.I.	Setting ra	ange (b	ipolar)		0~±	20V			0~±30V		
DC Voltage	Setting ra	ange (si	ngle pole)		0~2	20V			0~30V		
	Tempera	iture co	efficient		±100ppm/°	C (range)		±10	0ppm/°C (rang	je)	
AC voltage	Setting ra	ange			0~2	20V			0~30V		
Voltage resp	onse time	(see note	2、3)	(Visib Freqi Freqi	le annotations1) uency characteris uency characteris	stic (TYP value) DC stic (TYP value) DC	~150kHz, voltage ~100kHz, voltage	response time: 2.3 response time: 3.4	3 μ s. 6.7 μ s. 23 μ 5 μ s. 10 μ s. 35 μ s	s. 67 μ S optional . 100 μ S optional	
Note 1: According Note 2: Rising edg range=0.3 Note 3: Rise time: '	Note 1: According to the external model input voltage, the amplitude ratio of the output current is -3dB frequency (reference frequency 1Hz, reaction time 3.5 µ s. Rated load) Note 2: Rising edge time/falling edge time (rated load, excluding output ON/OFF). The frequency characteristics will also change according to the set reaction time (frequency range=0.35/rising edge time). Note 3: Rise time: When the output voltage changes from 0V to the rated voltage, the change in output voltage is 10% to 90% of the rated time. Falling edge time: When the output voltage changes from 0V to the rated voltage. The change in procurs is between 90% and 10% of the rated time.										
	ltage changes	from the	rated voltage	to 0V,	the output voltage	• The change in pres	sure is between 909	6 and 10% of the rat	ted time.		
CC Mode	Setting rai	nge	0 120	•				0			
	(bipolar) Setting rar	nae	0~±120	A	0~±150A	0~±200A	0~±500A	0~±10A	0~±13.4A	0~±20A	
DC Current	(single pol	le) Ire	0~±120,	A	0~±150A	0~±200A	0~±500A	0~±10A	0~±13.4A	0~±20A	
	coefficient	t				±1()0ppm/°C (rar I	nge)			
AC Current	Setting ra	ange	0~240Ap	pp	0~300App	0~400App	0~1000App	0~20App	0~26.8App	0~40App	
Current reac (Visible annotatio	tion time ons5、6)		(Visible ann Frequency Frequency	iotatioi / chai / chai	^{ns4)} racteristic (TYP racteristic (TYP	value) DC~5kHz value) DC~10kH	z, voltage respo Iz, voltage respo	nse time: 70 μ s onse time: 35 μ	s. 100 μ s. 350 μ s s. 100 μ s. 350 μ	s. 1ms optional . s. 1ms optional	
Note 4: According The freque Note 5: Rising edg Note 6: Rise time: ¹ current ch	to the externa ncy characteris e time/falling When the out anges from th	al model ir stics will cha edge time put curren ne rated cu	nput voltage, t ange based or (rated load, e It changes fror urrent to 0A, tl	the am the In excludi m 0A t he out	plitude ratio of the npedance value of th ng output ON/OFF to the rated current put current The var	e output current is -3 he load. The Imperfor 5). According to the c t, the change in outp riation of flow is betw	dB frequency (refere mance value of the I different times of loa ut current is 10% to veen 90% and 10% o	ence frequency 100H oad increases The tir d Impedance, it will 90% of the rated tir of the rated time.	Iz, reaction time 35 µ ne-frequency charact also change. ne. Falling edge time	us. Rated load). eristics decrease. When the output	
Accuracy											
	DC				±	(0.05% reading	g +0.05% range	e),T=(18°C~2	8°C)		
Voltage measurement	AC DC+AC				± (0.05 ± (0.55	5% reading +0.1 % reading +0.5	05% range) % range)(10	(5Hz-10kHz) ,)kHz-500kHz)	T=(18℃~28℃) ,T=(18℃~28℃)	I	
	DC				±	(0.5% reading	+0.5% range),T=(18°C~28°	°C)		
measurement	AC DC+AC				± (0. ± (5%	5% reading +0. % reading +10%	5% range)(5 range)(10k	5Hz-10kHz),T (Hz-300kHz),	=(18°C~28°C) T=(18°C~28°C)		
Resolution F	Ratio		1								
Voltage settir	ng	DC、AC	C, DC+AC 0.001V (U≤60V)								
Current settir	ng	DC、 AC	C, DC+AC 0,001A (I<60 A), 0,01A (60A < I<500A)								
Voltage read	back	C、DC+AC			. (0.001V (U≤60V	·)				
Current read	ing back	DC、 AC	C、DC+AC			0.001A (I≤6	0 A), 0.01A (60	DA < I≤500A)			

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30V Series	Techni	cal Para	ameters								
Models			HY-BP 30-	-26.7	HY-BP 30-40	HY-BP 30-60	HY-BP 30-100	HY-BP 30-134	HY-BP 30-200	HY-BP 30-267	
Rated outpu	t voltage		±30V	,	±30V	±30V	±30V	±30V	±30V	±30V	
Output curre	ent		±26.74	Д	±40A	±60A	±100A	±134A	±200A	±267A	
Rated outpu	t power		800W	/	1200W	1800W	3000W	4000W	6000W	8000W	
	Setting r	ange	CV Optic CC Optic	onal i onal i	in mode: 0~50 in mode: 0.011).00kHz\0~100.0 Hz~10.00kHz	0kHz\0~200.00k	(Hz\0~300.00kH	lz\0~400.00kHz\	.0~500.00kHz	
	Set reso	lution					0.01Hz				
AC Frequency	Setting a	accuracy				±100	ppm, T=(18°C	~28°C)			
	Sweep fr	requency	,			L	inear, logarithn	nic			
	Sweep t	ime				100µs-1000	s (resolution r	atio 100µs)			
	Туре				Sine wave, s	quare wave, tria	angular wave, a	arbitrary wavefo	orm (22 types)		
AC Waveform	Start ph	ase					0~359°	-			
	Sauare wa	ave DUTY	0.1%~99	9% (F < 100Hz) , 1%	~99% (100Hz≤F	< 1kHz) , 10%~'	90% (1kHz≤F<1	0kHz) , 50% rec	ular (10kHz < F)	
CV Mode											
	Setting range (bipolar) 0~±30V										
DC Voltage	Setting r	ange (sir	nale pole)				0~30V				
	Tomporature coefficient +100ppm/°C (range)										
AC Voltage	Sotting r										
AC Voltage	Setting I	ange		(Visib	le annotations1)		0 301				
Voltage response time (see note 2、3) Frequency characteristic (TYP value) DC~150kHz, voltage response time: 2.3 µ s. 67 µ s. 23 µ s. 67 µ S optional Frequency characteristic (TYP value) DC~100kHz, voltage response time: 3.5 µ s. 10 µ s. 35 µ s. 100 µ S optional										s. 67 μ S optional . 100 μ S optional	
 Note 1: According to the external model input voltage, the amplitude ratio of the output current is -3dB frequency (reference frequency 1Hz, reaction time 3.5 μ s. Rated load) Note 2: Rising edge time/falling edge time (rated load, excluding output ON/OFF). The frequency characteristics will also change according to the set reaction time (frequency range=0.35/rising edge time). Note 3: Rise time: When the output voltage from 0V to the rated voltage, the change in output voltage is 10% to 90% of the rated time. Falling edge time: When the output voltage changes from 0V to the rated voltage. The change in procrum is between 90% and 10% of the rated time. 											
output voltage changes from the rated voltage to UV, the output voltage. The change in pressure is between 90% and 10% of the rated time.											
	Setting ra	ange	0+26	7 ^	0 + 40.4	0	0 100 0	0 1244	0 1 200 4	0 12674	
DC Current	(bipolar) Setting ra	nge	$0 \sim \pm 20.1$	7Α 7Δ	0~±40A	0~±00A	0~±100A	0~±154A	0~±200A	0~±207A	
	(single pc Temperat coefficien	ole) ure It	0 ±20.77		U~±40A	±10	00°1100A	nge)	0**±200A	0**±207A	
AC Current	Setting r	range	0~53.4A	App	0~80App	0~120App	0~200App	0~268App	0~400App	0~534App	
Current reac (Visible annotatio	tion time ons5、6)		(Visible anr Frequency Frequency	^{notatio} y cha y cha	ns4) racteristic (TYP racteristic (TYP	value) DC~5kHz value) DC~10kH	z, voltage respo Iz, voltage respo	nse time: 70 μ s onse time: 35 μ	s. 100 μ s. 350 μ s. 100 μ s. 350 μ	s. 1ms optional ı s. 1ms optional	
Note 4: According The freque Note 5: Rising edg Note 6: Rise time: current ch	to the extern ncy characteri e time/falling When the ou anges from t	al model ir istics will cha edge time tput curren he rated cu	nput voltage, ange based or (rated load, o t changes fro irrent to 0A, t	the an n the lr exclud om 0A the ou	nplitude ratio of the mpedance value of t ling output ON/OFF to the rated current tput current The van	output current is -3 he load. The Imperfo). According to the o t, the change in outp riation of flow is betw	dB frequency (refere rmance value of the different times of loa out current is 10% to veen 90% and 10%	ence frequency 100H load increases The tii ad Impedance, it will 90% of the rated tii of the rated time.	Iz, reaction time 35 me-frequency charact also change. me. Falling edge time	μ s. Rated load). teristics decrease. e: When the output	
Accuracy											
	DC				±	(0.05% reading	g +0.05% range	e),T=(18°C~2	8°C)		
Voltage measurement	AC DC+AC				± (0.05 ± (0.55	5% reading +0. % reading +0.5	05% range) % range)(10	(5Hz-10kHz) ,)kHz-500kHz)	T=(18℃~28℃) ,T=(18℃~28℃))	
Current	DC				±	0.5% reading	g +0.5% range),T=(18°C~28	°C)		
measurement	AC DC+AC		± (0.5% reading +0.5% range) (5Hz-10kHz) ,T=(18°C~28°C) ± (5% reading +10% range) (10kHz-300kHz) ,T=(18°C~28°C)								
Resolution I	Ratio										
Voltage settir	ng	DC、AC	、DC+AC 0.001V(U≤60V)								
Current settir	ng	DC、AC	C、DC+AC 0.001A (I≤60 A), 0.01A (60A < I≤500A)								
Voltage read	back	DC、AC	C DC+AC			(0.001V (U≤60V	/)			
Current read	DC、AC	C DC+AC			0.001A (I≤6	0 A), 0.01A (6	0A < I≤500A)				

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40V Series Technical Parameters

Models			HY-BP 40)-7.5	HY-BP 40-10	HY-BP 40-15	HY-BP 40-20	HY-BP 40-30	HY-BP 40-45	HY-BP 40-50
Rated output	t voltage		±40V	r	±40V	±40V	±40V	±40V	±40V	±40V
Output curre	ent		±7.5A	۸	±10A	±15A	±20A	±30A	±45A	±50A
Rated output	t power		300W	/	400W	600W	800W	1200W	1800W	2000W
	Setting I	range	CV Opt CC Opt	tional tional	in mode: 0~ in mode: 0.0	50.00kHz\0~100. 11Hz~10.00kHz	00kHz\0~200.00	0kHz\0~300.00k	:Hz\0~400.00kH	z\0~500.00kHz
	Set reso	lution					0.01Hz			
AC Frequency	Setting	accuracy				±100	opm, T=(18°C	~28°C)		
	Sweep fi	requency	1			L	inear, logarithm	nic		
	Sweep t	ime				100µs-1000	s (resolution ra	atio 100µs)		
	Туре				Sine wave, se	quare wave, tria	ingular wave, a	rbitrary wavefo	orm (22 types)	
AC Waveform	Start ph	nase					0~359°			
	Square w	ave DUTY	0.1%~99.9	9% (F	<100Hz), 1%	~99% (100Hz≤F	<1kHz) , 10%~9	90% (1kHz≤F<1	0kHz) , 50% reg	ular (10kHz < F)
CV Mode										
	Setting r	range (bi	polar)				0~±40V			
DC Voltage	Setting r	range (si	ngle pole)				0~40V			
	Tempera	ature coe	fficient			±1()0ppm/°C (rar	nge)		
AC Voltage	e Setting range 0~40V									
	<u>-</u>			(Visib	le annotations1)					
Voltage resp	onse time	e (see note	2、3)	Frequ Frequ	uency characteris uency characteris	stic (TYP value) DC stic (TYP value) DC	~150kHz, voltage ~100kHz, voltage	response time: 2. response time: 3.	3 μ s. 6.7 μ s. 23 μ 5 μ s. 10 μ s. 35 μ s	s. 67 μ S optional s. 100 μ S optional
Note 1: According Note 2: Rising edg	to the extern e time/falling	al model in edge time	put voltage, tl (rated load, e	he amp excludir	plitude ratio of the ng output ON/OFF	output current is -3c). The frequency cha	B frequency (reference) racteristics will also	nce frequency 1Hz, change according to	reaction time 3.5 μ s o the set reaction tim	. Rated load) ie (frequency
Note 3: Rise time: V	Note 3: Rise time: When the output voltage changes from 0V to the rated voltage, the change in output voltage is 10% to 90% of the rated time. Falling edge time: When the									
CC Mode										
	Setting ra	ange	0~±7.5	5A	0~±10A	0~±15A	0~±20A	0~±30A	0~±45A	0~±50A
DC Current	Setting ra	ange	0~±7.5	5A	0~±10A	0~±15A	0~±20A	0~±30A	0~±45A	0~±50A
	Temperat	ure				+1()0ppm/°C (rar	nge)		
AC Current	Settina i	rande	0~15A	aa	0~20App	qqA06~0	0~40App	0~60App	0~90App	0~100App
Current ree	tion times	runge	(Visible ann	otation	154)		- 107.pp		0 000, pp	
(Visible annotatio	ons5、6)		Frequency Frequency	y char y char	racteristic (TYP racteristic (TYP	value) DC~5kHz value) DC~10kH	z, voltage respo Iz, voltage respo	nse time: 70 μ s onse time: 35 μ	s. 100 μ s. 350 μ s. 100 μ s. 350 μ	s. 1ms optional 1 s. 1ms optional
Note 4: According	to the extern	nal model ir	nput voltage, t	the am	plitude ratio of the	output current is -3	dB frequency (refere	ence frequency 100H	Iz, reaction time 35	u s. Rated load).
Note 5: Rising edg	ncy cnaracter e time/falling When the ou	stics will cha gedge time	(rated load, e	n the Im excludii m 0.4 t	npedance value of ti ng output ON/OFF o the rated current	i). According to the c	fifferent times of the I different times of loa	oad increases The tir id Impedance, it will	also change.	eristics decrease.
current ch	anges from t	the rated cu	irrent to 0A, t	the out	put current The var	riation of flow is betw	veen 90% and 10% o	of the rated time.	ne. rainng euge time	. when the output
Accuracy										
	DC				±	(0.05% reading	g +0.05% range	e),T=(18℃~2	8°C)	
Voltage	AC				+ (0.0	5% reading +0.)5% range)	(5Hz-10kHz)	T-(18°C~28°C)	
measurement	DC+AC				+ (0.59	% reading +0.5	% range) (10	(3112 10K112) ,)kHz-500kHz)	.T=(18°C~28°C))
					_ (0.5	(0.50) I:			,	
Current	DC				±	(0.5% reading	+0.5% range),1=(18°C~28	°C)	
measurement	AC DC+AC		± (0.5% reading +0.5% range) (5Hz-10kHz) ,T=(18°C~28°C) ± (5% reading +10% range) (10kHz-300kHz) ,T=(18°C~28°C)							
Resolution I	Ratio									
Voltage settir	ng	DC、AC	C. DC+AC 0.001V (U≤60V)							
Current settir	ng	DC、AC	C, DC+AC 0.001A (I≤60 A), 0.01A (60A < I<500A)							
Voltage read	back	DC、AC	、DC+AC			().001V (U≤60V	·		
Current read	ing back	DC、AC	、DC+AC			0.001A (I≤6	0 A), 0.01A (60	0A < I≤500A)		

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40V-60V S	eries Te	chnica	Parame	eter	S						
Models			HY-BP 40)-60	HY-BP 40-75	HY-BP 40-100	HY-BP 40-150	HY-BP 40-200	HY-BP 40-250	HY-BP 60-6.7	
Rated outpu	t voltage		±40V	r	±40V	±40V	±40V	±40V	±40V	±60V	
Output curre	ent		±60A		±75A	±100A	±150A	±200A	±250A	±6.7A	
Rated outpu	t power		2400V	V	3000W	4000W	6000W	8000W	10kW	400W	
	Setting r	ange	CV Opt CC Opt	iona iona	l in mode: 0~ l in mode: 0.0	50.00kHz\0~100.)1Hz~10.00kHz	00kHz\0~200.00	0kHz\0~300.00k	(Hz\0~400.00kHz	<u>r</u> \0~500.00kHz	
	Set reso	lution					0.01Hz				
AC Frequency	Setting a	accuracy				±100p	opm, T=(18°C-	~28°C)			
	Sweep fr	equency				Li	inear, logarithm	nic			
	Sweep t	ime				100µs-1000	s (resolution ra	atio 100µs)			
	Туре				Sine wave, so	quare wave, tria	ingular wave, a	rbitrary wavefo	orm (22 types)		
AC Waveform	Start ph	ase					0~359°				
	Square wa	ave DUTY	0.1%~99.	9% (F<100Hz), 1%	~99% (100Hz≤F	<1kHz) , 10%~9	90% (1kHz≤F<1	0kHz) , 50% reg	ular (10kHz < F)	
CV Mode											
	Setting r	range (bi	polar)				0~±40V			0~±60V	
DC Voltage	Setting r	ange (sir	ngle pole)				0~40V			0~60V	
	Temperature coefficient ±100ppm/°C (range)										
AC Voltage	Setting r	ange	0~40V 0~60V								
Voltage response time (see note 2、3)(Visible annotations1) Frequency characteristic (TYP value) DC~150kHz, voltage response time: 2.3 μ s. 6.7 μ s. 23 μ s. 67 Frequency characteristic (TYP value) DC~100kHz, voltage response time: 3.5 μ s. 10 μ s. 35 μ s. 10 P s. 35 μ s. 10								s. 67 μ S optional 5. 100 μ S optional			
Note 1: According to the external model input voltage, the amplitude ratio of the output current is -3dB frequency (reference frequency 1Hz, reaction time 3.5 µ s. Rated load) Note 2: Rising edge time/falling edge time (rated load, excluding output ON/OFF). The frequency characteristics will also change according to the set reaction time (frequency range=0.35/rising edge time). Note 3: Rise time: When the output voltage changes from 0V to the rated voltage, the change in output voltage is 10% to 90% of the rated time. Falling edge time: When the output voltage changes from the rated voltage to 0V, the output voltage in pressure is between 90% and 10% of the rated time.											
CC Mode											
	Setting ra	ange	0~±60.	A	0~±75A	0~±100A	0~±150A	0~±200A	0~±250A	0~±6.7A	
DC Current	Setting ra	nge	0~±60.	A	0~±75A	0~±100A	0~±150A	0~±200A	0~±250A	0~±6.7A	
	Temperat	ure				±1()0ppm/°C (rar	nge)			
AC Current	Setting r	ange	0~120A	рр	0~150App	0~200App	0~300App	0~400App	0~500App	0~13.4App	
Current reac (Visible annotatio	tion time		(Visible ann Frequency Frequency	otation / cha	ns4) racteristic (TYP racteristic (TYP	value) DC~5kHz value) DC~10kH	z, voltage respo	nse time: 70 μ s	s. 100 μ s. 350 μ s. 100 μ s. 350 μ	s. 1ms optional	
Note 4: According The freque Note 5: Rising edg Note 6: Rise time: current ch	to the extern ncy characteri e time/falling When the ou anges from t	al model in istics will cha edge time tput curren he rated cu	put voltage, t ange based or (rated load, e t changes froi rrent to 0A, t	the am the Ir excludi m 0A t he out	nplitude ratio of the npedance value of th ing output ON/OFF to the rated current put current The var	output current is -30 he load. The Imperfor). According to the c , the change in outp riation of flow is betw	dB frequency (refere mance value of the l lifferent times of loa ut current is 10% to veen 90% and 10% of	ence frequency 100F oad increases The tir d Impedance, it will 90% of the rated tir of the rated time.	Iz, reaction time 35 µ me-frequency charact also change. me. Falling edge time	ι s. Rated load). eristics decrease. : When the output	
Accuracy											
	DC				±	(0.05% reading	1 +0.05% range	e),T=(18°C~2	8°C)		
Voltage measurement	AC DC+AC				± (0.05 ± (0.55	5% reading +0.0 % reading +0.59)5% range) % range)(10	(5Hz-10kHz) ,)kHz-500kHz)	T=(18°C~28°C) ,T=(18°C~28°C)		
	DC				±	(0.5% reading	+0.5% range),T=(18°C~28'	°C)		
measurement	AC DC+AC				± (0.1 ± (5%	5% reading +0.1 % reading +10%	5% range)(a range)(10k	5Hz-10kHz),T (Hz-300kHz),	=(18°C~28°C) T=(18°C~28°C)		
Resolution I	solution Ratio										
Voltage settir	ng	DC、AC	DC+AC			().001V (U≤60V	·)			
Current settir	ng	DC、AC	DC+AC			0.001A (I≤6	0 A), 0.01A (60) 0A < I≤500A)			
Voltage read	back	DC、AC	DC+AC			. (0.001V (U≤60V	·)			
Current read	ing back	DC、AC	DC+AC			0.001A (I≤6	0 A), 0.01A (60	DA < I≤500A)			

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Models			HY-BP 60)-10	HY-BP 60-13.4	HY-BP 60-20	HY-BP 60-30	HY-BP 60-33.5	HY-BP 60-40	HY-BP 60-50	
Rated output	t voltage		±60V		±60V	±60V	±60V	±60V	±60V	±60V	
Output curre	ent		±10A		±13.4A	±20A	±30A	±33.5A	±40A	±50A	
Rated output	t power		600W	'	800W	1200W	1800W	2000W	2400W	3000W	
	Setting I	range	CV Opt CC Opt	iona ional	l in mode: 0~ l in mode: 0.0	50.00kHz\0~100.)1Hz~10.00kHz	00kHz\0~200.0	0kHz\0~300.00k	:Hz\0~400.00kH:	z\0~500.00kHz	
	Set reso	lution					0.01Hz				
AC Frequency	Setting	accuracy				±100	opm, T=(18°C-	~28°C)			
	Sweep fi	requency				L	inear, logarithm	nic			
	Sweep t	ime				100µs-1000	s (resolution r	atio 100µs)			
	Туре				Sine wave, s	quare wave, tria	ingular wave, a	nbitrary wavefo	orm (22 types)		
AC Faveform	Start ph	nase					0~359°				
	Square w	ave DUTY	0.1%~99.9	$0.1\% \sim 99.9\% ~(F < 100 Hz) ~,~ 1\% \sim 99\% ~(100 Hz \leq F < 1 kHz) ~,~ 10\% \sim 90\% ~(1 kHz \leq F < 10 kHz) ~,~ 50\% ~regular ~(10 kHz < 10 kHz) ~,~ 10\% ~,~ 10$							
CV Mode											
	Setting	range (bi	ipolar)				0~±60V				
DC Voltage	Setting r	range (sir	ngle pole)				0~60V				
	Temper	Temperature coefficient ±100ppm/°C (range)									
AC Voltage	Setting r	range	0~60V								
Voltage resp	onse time	e (see note)	2、3)	(Visib Frec Frec	ole annotations1) quency characteris quency characteris	stic (TYP value) DC stic (TYP value) DC	~150kHz, voltage ~100kHz, voltage	response time: 2. response time: 3.	3 μ s. 6.7 μ s. 23 μ 5 μ s. 10 μ s. 35 μ	. s. 67 μ S optional s. 100 μ S optional	
Note 1: According to the external model input voltage, the amplitude ratio of the output current is -3dB frequency (reference frequency 1Hz, reaction time 3.5 µ s. Rated load) Note 2: Rising edge time/falling edge time (rated load, excluding output ON/OFF). The frequency characteristics will also change according to the set reaction time (frequency range=0.35/rising edge time). Note 3: Rise time: When the output voltage changes from 0V to the rated voltage, the change in output voltage is 10% to 90% of the rated time. Falling edge time: When the output voltage changes from the rated voltage to 0V, the output voltage The change in pressure is between 90% and 10% of the rated time.											
CC Mode											
	Setting ra (bipolar)	ange	0~±104	4	0~±13.4A	0~±20A	0~±30A	0~±33.5A	0~±40A	0~±50A	
DC Current	Setting ra	ange ble)	0~±104	4	0~±13.4A	0~±20A	0~±30A	0~±33.5A	0~±40A	0~±50A	
	Temperat	ure nt				±1()0ppm/°C (rar	nge)			
AC Current	Setting	range	0~20Ap	р	0~26.8App	0~40App	0~60App	0~67App	0~80App	0~100App	
Current react (Visible annotatio	tion time		(Visible ann Frequency Frequency	otatio / cha / cha	^{ns4)} racteristic (TYP racteristic (TYP	value) DC~5kHz value) DC~10kH	z, voltage respo Iz, voltage respo	onse time: 70 μ s onse time: 35 μ	s. 100 μ s. 350 μ s. 100 μ s. 350 μ	s. 1ms optional u.s. 1ms optional	
Note 4: According The freque Note 5: Rising edg Note 6: Rise time: ' current ch	to the exterr ncy character e time/falling When the ou anges from t	nal model ir istics will cha g edge time Itput curren the rated cu	put voltage, t ange based on (rated load, e t changes fror rrent to 0A, th	the am the In excludi m 0A t ne out	nplitude ratio of the npedance value of t ing output ON/OFF to the rated current put current The var	output current is -3 he load. The Imperfor). According to the c t, the change in outp riation of flow is betw	dB frequency (refere mance value of the l lifferent times of loa ut current is 10% to veen 90% and 10% o	ence frequency 100H load increases The tir id Impedance, it will 90% of the rated tir of the rated time.	Iz, reaction time 35 µ ne-frequency charact also change. ne. Falling edge time	u s. Rated load). eristics decrease. e: When the output	
Accuracy											
	DC				±	(0.05% reading	1 +0.05% range	e),T=(18℃~28	8°C)		
Voltage measurement	AC DC+AC				± (0.05 ± (0.55	5% reading +0.1 % reading +0.5°)5% range) % range)(10	(5Hz-10kHz) ,)kHz-500kHz)	T=(18°C~28°C) ,T=(18°C~28°C))	
Current	DC				±	(0.5% reading	+0.5% range),T=(18°C~28°	°C)		
measurement	AC DC+AC		± (0.5% reading +0.5% range) (5Hz-10kHz) ,T=(18℃~28℃) ± (5% reading +10% range) (10kHz-300kHz) ,T=(18℃~28℃)								
Resolution I	Ratio										
Voltage settir	ng	DC、AC	C、DC+AC 0.001V (U≤60V)								
Current settir	ng	DC、AC	C、DC+AC 0.001A (I≤60 A), 0.01A (60A < I≤500A)								
Voltage read	ead back DC, AC, DC+AC $0.001V (U \le 60V)$										
Current read	ing back	DC、AC	DC+AC			0.0014 (1<6	0 A), 0 01A (6	NA < I<500A)			

60V Series Technical Parameters

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60V-80V Series Technical Parameters

Models	els		HY-BP 60	-67	HY-BP 60-100	HY-BP 60-133.4	HY-BP 60-167	HY-BP 80-5	HY-BP 80-7.5	HY-BP 80-10		
Rated output	t voltage		±60V		±60V	±60V	±60V	±80V	±80V	±80V		
Output curre	ent		±67A		±100A	±133.4A	±167A	±5A	±7.5A	±10A		
Rated output	t power		4000V	V	6000W	8000W	10kW	400W	600W	800W		
	Setting r	ange	CV Opt CC Opt	iona iona	l in mode: 0~ l in mode: 0.0	50.00kHz\0~100. 1Hz~10.00kHz	00kHz\0~200.0) 2kHz\0~300.00k	(Hz\0~400.00kH;	<u>z</u> ∖0~500.00kHz		
	Set reso	lution					0.01Hz					
AC Frequency	Setting a	accuracy				±100p	opm, T=(18°C-	~28°C)				
	Sweep fr	requency				Li	near, logarithm	nic				
	Sweep t	ime				100µs-1000:	s (resolution r	atio 100µs)				
	Туре				Sine wave, so	quare wave, tria	ngular wave, a	rbitrary wavefo	orm (22 types)			
AC Waveform	Start ph	ase					0~359°					
	Square wa	ave DUTY	0.1%~99.	9% (F<100Hz), 1%	~99% (100Hz≤F	<1kHz) , 10%~9	90% (1kHz≤F<1	0kHz) , 50% reg	ular (10kHz < F)		
CV Mode	CV Mode											
D.C.V.L	Setting r	range (b	ipolar)		0~=	±60V			0~±80V			
DC Voltage	Setting r	ange (sir	ngle pole)		0~	60V			0~80V			
	Tempera	ature coe	efficient		±100ppm/s	°C (range)		±100	opm/°C (range)		
AC Voltage	Setting r	ange	0~60V (0~80V			
Voltage resp	onse time	(see note	2、3)	(Visib Freq Freq	le annotations1) uency characteris uency characteris	tic (TYP value) DC	~150kHz, voltage ~100kHz, voltage	response time: 2. response time: 3.	3 µ s. 6.7 µ s. 23 µ 5 µ s. 10 µ s. 35 µ s	s. 67 μ S optional s. 100 μ S optional		
 Note 1: According to the external model input voltage, the amplitude ratio of the output current is -3dB frequency (reference frequency 1Hz, reaction time 3.5 μ s. Rated load) Note 2: Rising edge time/falling edge time (rated load, excluding output ON/OFF). The frequency characteristics will also change according to the set reaction time (frequency range=0.35/rising edge time). Note 3: Rise time: When the output voltage changes from 0V to the rated voltage, the change in output voltage is 10% to 90% of the rated time. Falling edge time: When the output voltage changes from 0V to the output voltage. The change in pressure is between 90% and 10% of the rated time. 												
CC Mode												
	Setting ra	ange	0~±67/	Ą	0~±100A	0~±133.4A	0~±167A	0~±5A	0~±7.5A	0~±10A		
DC Current	Setting ra	nge ble)	0~±67/	Ą	0~±100A	0~±133.4A	0~±167A	0~±5A	0~±7.5A	0~±10A		
	Temperat coefficien	ure It				±1()0ppm/°C (rar	nge)				
AC Current	Setting r	range	0~134A	рр	0~200App	0~266.8App	0~334App	0~10App	0~15App	0~20App		
Current reac (Visible annotatio	tion time ons5、6)		(Visible anr Frequency Frequency	notatic / cha / cha	ns4) racteristic (TYP racteristic (TYP	value) DC~5kHz value) DC~10kH	z, voltage respo Iz, voltage respo	nse time: 70 μ s onse time: 35 μ	s. 100 μ s. 350 μ s. 100 μ s. 350 μ	s. 1ms optional s. 1ms optional		
Note 4: According The frequer Note 5: Rising edg Note 6: Rise time: \ current ch	to the extern ncy characteri e time/falling When the ou anges from t	al model ir istics will cha edge time tput curren he rated cu	nput voltage, t ange based or (rated load, e t changes fro irrent to 0A, t	the am the Ir excludi m 0A 1 he out	nplitude ratio of the npedance value of tl ing output ON/OFF to the rated current tput current The var	output current is -30 he load. The Imperfor). According to the d , the change in outp iation of flow is betw	dB frequency (referent mance value of the l lifferent times of loa ut current is 10% to veen 90% and 10% of	ence frequency 100H oad increases The tir d Impedance, it will 90% of the rated tir of the rated time.	lz, reaction time 35 μ me-frequency charact also change. me. Falling edge time) s. Rated load). eristics decrease. Y. When the output		
Accuracy												
	DC				±	(0.05% reading	+0.05% range	e),T=(18°C~2	8°C)			
Voltage measurement	AC DC+AC				± (0.05 ± (0.55	5% reading +0.0 % reading +0.59)5% range) % range)(10	(5Hz-10kHz) ,)kHz-500kHz)	T=(18℃~28℃) ,T=(18℃~28℃))		
Current	DC				±	(0.5% reading	+0.5% range),T=(18°C~28	°C)			
measurement	AC DC+AC		± (0.5% reading +0.5% range) (5Hz-10kHz) ,T=(18°C~28°C) ± (5% reading +10% range) (10kHz-300kHz) ,T=(18°C~28°C)									
Resolution F	Ratio											
Voltage settir	ng	DC、AC	C, DC+AC 0.001V (U≤60V), 0.01V (60V < U≤100V)									
Current settir	ng	DC、AC										
Voltage read back DC、AC、DC+AC				0.001V (U≤6	iov), 0.01V (60)V < U≤100V)						
Current read	ing back	DC、AC	、DC+AC			0.001A (I≤6	0 A), 0.01A (6	0A < I≤500A)				

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80V Series Technical Parameters												
Models			HY-BP 80)-15	HY-BP 80-22.5	HY-BP 80-25	HY-BP 80-30	HY-BP 80-37.5	HY-BP 80-50	HY-BP 80-75		
Rated outpu	t voltage		±80V	,	±80V	±80V	±80V	±80V	±80V	±80V		
Output curre	ent		±15A		±22.5A	±25A	±30A	±37.5A	±50A	±75A		
Rated outpu	t power		1200W	V	1800W	2000W	2400W	3000W	4000W	6000W		
	Setting r	ange	CV Opt CC Opt	iona iona	al in mode: 0~ Il in mode: 0.0	50.00kHz\0~100)1Hz~10.00kHz	.00kHz\0~200.00	0kHz\0~300.00k	(Hz\0~400.00kH	z\0~500.00kHz		
	Set resol	ution					0.01Hz					
AC Frequency	Setting a	accuracy				±100	ppm, T=(18°C-	~28°C)				
	Sweep fr	equency				L	inear, logarithm	nic				
	Sweep ti	me				100µs-1000	s (resolution ra	atio 100µs)				
	Туре				Sine wave, s	quare wave, tria	angular wave, a	rbitrary wavefo	orm (22 types)			
AC Waveform	Start ph	ase					0~359°					
	Square wa	ave DUTY	0.1%~99.	0.1%~99.9%(F < 100Hz),1%~99%(100Hz≤F < 1kHz),10%~90%(1kHz≤F < 10kHz),50% regular(10kHz < F								
CV Mode												
	Setting range (bipolar) 0~±80V											
DC Voltage	Setting r	ange (sir	ngle pole)				0~80V					
	Tempera	ature coe	efficient			±1()0ppm/°C (ran	ge)				
AC Voltage	Setting r	ange	ge 0~80V									
Voltage resp	/oltage response time (see note 2、3) /oltage response time (see note 2、3) /ortage response time: 2.3 μ s. 6.7 μ s. 23 μ s. 67 μ s. 23								s. 67 μ S optional , s. 100 μ S optional			
 Note 1: According to the external model input voltage, the amplitude ratio of the output current is -3dB frequency (reference frequency 1Hz, reaction time 3.5 µ s. Rated load) Note 2: Rising edge time/failing edge time (rated load, excluding output ON/OFF). The frequency characteristics will also change according to the set reaction time (frequency range=0.35/rising edge time). Note 3: Rise time: When the output voltage from 0V to the rated voltage, the change in output voltage is 10% to 90% of the rated time. Falling edge time: When the output voltage changes from 0V to the output voltage. The change in pressure is between 90% and 10% of the rated time. 												
CC Mode												
	Setting ra (bipolar)	nge	0~±15	A	0~±22.5A	0~±25A	0~±30A	0~±37.5A	0~±50A	0~±75A		
DC Current	Setting rai	nge 0~±1		Setting range		A	0~±22.5A	0~±25A	0~±30A	0~±37.5A	0~±50A	0~±75A
	Temperati	ure t				±1	00ppm/°C (rar	ige)				
AC Current	Setting r	ange	0~30A	рр	0~45App	0~50App	0~60App	0~75App	0~100App	0~150App		
Current reac (Visible annotatic	tion time		(Visible anr Frequency Frequency	notatio y cha y cha	aracteristic (TYP aracteristic (TYP	value) DC~5kH: value) DC~10kH	z, voltage respo Iz, voltage respo	nse time: 70 μ s onse time: 35 μ	s. 100 μ s. 350 μ s. 100 μ s. 350 μ	s. 1ms optional 1 s. 1ms optional		
Note 4: According The freque Note 5: Rising edg Note 6: Rise time: ' current ch	to the extern ncy characteris e time/falling When the out langes from th	al model in stics will cha edge time put curren ne rated cu	nput voltage, i ange based or (rated load, e t changes fro irrent to 0A, t	the ar h the l excluc m 0A he ou	nplitude ratio of the mpedance value of t ling output ON/OFF to the rated current tput current The va	e output current is -3 the load. The Imperfoo F). According to the c t, the change in outp riation of flow is betv	dB frequency (refere rmance value of the l different times of loa but current is 10% to ween 90% and 10% c	ence frequency 100H oad increases The tir d Impedance, it will 90% of the rated tir of the rated time.	Iz, reaction time 35 ne-frequency charact also change. ne. Falling edge time	u s. Rated load). eristics decrease. e: When the output		
Accuracy												
	DC				±	(0.05% reading	g +0.05% range	e),T=(18℃~2	8°C)			
Voltage measurement	AC DC+AC				± (0.0 ± (0.5	5% reading +0. % reading +0.5	05% range) % range)(10	(5Hz-10kHz) , kHz-500kHz)	T=(18°C~28°C) ,T=(18°C~28°C))		
	DC				±	(0.5% reading	g +0.5% range),T=(18°C~28°	°C)			
Current measurement	AC DC+AC		± (0.5% reading +0.5% range) (5Hz-10kHz) ,T=(18°C~28°C) ± (5% reading +10% range) (10kHz-300kHz) ,T=(18°C~28°C)									
Resolution I	Ratio											
Voltage settir	ng	DC、AC、DC+AC 0.001V (U≤60V), 0.01V (60V < U≤100V)										
Current Setti	ng	DC、AC	、DC+AC			0.001A (I<6	io a), 0.01a (60)A < ≤500A)				
Voltage read	back	DC、AC	DC+AC			0.001V (U≤6	50V), 0.01V (60)V < U≤100V)				
Current read	ing back	DC、AC	、DC+AC			0.001A (I≤6	io A), 0.01A (60)A < I≤500A)				

80V-100V	Series 1	Fechnic	al Paran	nete	ers						
Models			HY-BP 80	-100	HY-BP 80-125	HY-BP 100-4	HY-BP 100-6	HY-BP 100-8	HY-BP 100-12	HY-BP 100-18	
Rated outpu	t voltage		±80V		±80V	±100V	±100V	±100V	±100V	±100V	
Output curre	ent		±100A	L.	±125A	±4A	±6A	±8A	±12A	±18A	
Rated outpu	t power		8000W	/	10kW	400W	600W	800W	1200W	1800W	
	Setting r	range	CV Opt CC Opt	iona iona	l in mode: 0~ l in mode: 0.0	50.00kHz\0~100)1Hz~10.00kHz	.00kHz\0~200.00	0kHz\0~300.00k	(Hz\0~400.00kHz	z\0~500.00kHz	
	Set reso	lution					0.01Hz				
AC Frequency	Setting a	accuracy				±100	ppm, T=(18°C,	~28°C)			
	Sweep fr	requency				L	inear, logarithm	nic			
	Sweep t	ime				100µs-1000	s (resolution ra	atio 100µs)			
	Туре				Sine wave, s	quare wave, tria	angular wave, a	rbitrary wavefo	orm (22 types)		
AC Waveform	Start ph	lase					0~359°				
	Square wa	ave DUTY	0.1%~99.9	0.1%~99.9% (F < 100Hz) , 1%~99% (100Hz≤F < 1kHz) , 10%~90% (1kHz≤F < 10kHz) , 50% regular (10kHz							
CV Mode	de la										
	Setting I	range (bi	ipolar)		0~±	80V		0~±100V			
DC Voltage	ge Setting range (single pole) 0~80V					80V		0~100V			
	Tempera	ature coe	efficient ±100ppm/°C (range) ±100ppm/°C (range)					e)			
AC VColtage	Setting r	ande	0~80V 0~100V								
Voltage response time (see note 2, 3) Frequency characteristic (TYP value) DC~150kHz, voltage response time: 2.3 µ s. 6.7 µ s. 23 µ s. 67 µ s. 23 µ s.								. s. 67 μ S optional			
Note 1: According Note 2: Rising edg range=0.3 Note 3: Rise time: output vo	to the extern e time/falling 35/rising edg When the ou Itage change	al model in g edge time e time). itput voltage s from the i	put voltage, ti (rated load, e e changes fro rated voltage	he am exclud m 0V to 0V,	iplitude ratio of the ing output ON/OFf to the rated voltag the output voltage	 Output current is -3 The frequency characteristic chara	dB frequency (refere aracteristics will also out voltage is 10% tc ssure is between 909	nce frequency 1Hz, change according t 9 90% of the rated t 6 and 10% of the rat	reaction time 3.5 µ s o the set reaction tim ime. Falling edge tim ted time.	. Rated load) he (frequency e: When the	
CC Mode											
	(bipolar)	ange	0~±100/	4	0~±125A	0~±4A	0~±6A	0~±8A	0~±12A	0~±18A	
DC Current	Setting ra (single po	inge ble)	0~±100/	4	0~±125A	0~±4A	0~±6A	0~±8A	0~±12A	0~±18A	
	Temperat coefficien	ure It				±1	00ppm/°C (rar	nge)			
AC Current	Setting I	range	0~200Ap	р	0~250App	0~8App	0~12App	0~16App	0~24App	0~36App	
Current react (Visible annotation	tion time		(Visible ann Frequency Frequency	otatic / cha / cha	ns4) racteristic (TYP racteristic (TYP	value) DC~5kH value) DC~10kF	z, voltage respo 17. voltage respo	nse time: 70 µ s	s. 100 μ s. 350 μ s. 100 μ s. 350 μ	s. 1ms optional	
Note 4: According The freque Note 5: Rising edg Note 6: Rise time: current ch	to the exterr ncy characteri e time/falling When the ou anges from t	nal model ir istics will cha gedge time tput curren he rated cu	put voltage, t ange based on (rated load, e t changes fror irrent to 0A, th	he am the Ir xcludi n 0A t	nplitude ratio of the npedance value of t ing output ON/OFF to the rated current put current The va	e output current is -3 he load. The Imperfo -). According to the ¢ t, the change in outp riation of flow is bet	dB frequency (refere rmance value of the l different times of loa but current is 10% to veen 90% and 10% of	ence frequency 100H oad increases The tir d Impedance, it will 90% of the rated time.	dz, reaction time 35 µ ne-frequency charact also change. ne. Falling edge time	a s. Rated load). eristics decrease. e: When the output	
Accuracy						(0.050) II	0.050/				
	DC				±	(0.05% reading	g +0.05% range	e),T=(18°C~2	8°C)		
Voltage measurement	AC DC+AC				± (0.0) ± (0.5)	5% reading +0. % reading +0.5	05% range) % range)(10	(5Hz-10kHz) ,)kHz-500kHz)	T=(18°C~28°C) ,T=(18°C~28°C)		
Current	DC				±	(0.5% reading	g +0.5% range),T=(18°C~28	°C)		
measurement	AC DC+AC		± (0.5% reading +0.5% range) (5Hz-10kHz) ,T=(18℃~28℃) ± (5% reading +10% range) (10kHz-300kHz) ,T=(18℃~28℃)								
Resolution I	Ratio										
Voltage settir	ng	DC、AC	C、DC+AC 0.001V (U≤60V), 0.01V (60V < U≤100V)								
Current Setti	ng	DC、AC	AC、DC+AC 0.001A (I≤60 A), 0.01A (60A < I≤500A)								
Voltage read	back	DC、AC	DC+AC			0.001V (U≤€	50V), 0.01V (60	,)V < U≤100V)			
Current read	Voltage read back DC, A Current reading back DC, A					0.001A (I≤6	0 A), 0.01A (60	0A < I≤500A)			

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100V Serie	100V Series Technical Parameters											
Models			HY-BP 100	0-20H	HY-BP 100-24	HY-BP 100-30	HY-BP 100-40	HY-BP 100-60	HY-BP 100-80	HY-BP 100-100		
Rated output	t voltage		±100V	/	±100V	±100V	±100V	±100V	±100V	±100V		
Output curre	ent		±20A		±24A	±30A	±40A	±60A	±80A	±100A		
Rated output	t power		2000W	V	2400W	3000W	4000W	6000W	8000W	10kW		
	Setting r	ange	CV Opt CC Opt	ional ional	in mode: 0~! in mode: 0.0	50.00kHz\0~100. 1Hz~10.00kHz	.00kHz\0~200.00	0kHz\0~300.00k	:Hz\0~400.00kH:	z\0~500.00kHz		
	Set reso	lution					0.01Hz					
AC Frequency	Setting a	accuracy				±100p	opm, T=(18℃	~28°C)				
	Sweep fr	equency				L	inear, logarithm	nic				
	Sweep ti	ime				100µs-1000	s (resolution ra	atio 100µs)				
	Туре				Sine wave, so	quare wave, tria	angular wave, a	rbitrary wavefo	orm (22 types)			
AC Waveform	Start pha	ase					0~359°					
	Square wa	ave DUTY	0.1%~99.9	0.1%~99.9%(F < 100Hz),1%~99%(100Hz≤F < 1kHz),10%~90%(1kHz≤F < 10kHz),50% regular(10kHz < F								
CV Mode	de											
	Setting r	ange (b	ipolar)				0~±100V					
DC Voltage	DC Voltage Setting range (single pole) 0~100V											
	Temperature coefficient ±100ppm/°C (range)											
AC Voltage	Setting r	ange					0~100V	-				
Voltage response time (see note 2、3) Voltage response time (see note 2、3) Frequency characteristic (TYP value) DC~150kHz, voltage response time: 2.3 μ s. 6.7 μ s. 23 μ s. 67 μ S optional Frequency characteristic (TYP value) DC~100kHz, voltage response time: 3.5 μ s. 10 μ s. 35 μ s. 100 μ S optional										s. 67 μ S optional s. 100 μ S optional		
Note 1: According to the external model input voltage, the amplitude ratio of the output current is -3dB frequency (reference frequency 1Hz, reaction time 3.5 μ s. Rated load) Note 2: Rising edge time/falling edge time (rated load, excluding output ON/OFF). The frequency characteristics will also change according to the set reaction time (frequency range=0.35/rising edge time). Note 3: Rise time: When the output voltage changes from 0V to the rated voltage, the change in output voltage is 10% to 90% of the rated time. Falling edge time: When the output voltage changes from 0V to the rated voltage. The change in pressure is between 90% and 10% of the rated time. Falling edge time: When the output voltage to 0V, the output voltage.												
CC Mode												
	Setting ra (bipolar)	inge	0~±204	Д	0~±24A	0~±30A	0~±40A	0~±60A	0~±80A	0~±100A		
DC Current	Setting ra	nge	0~±204	Ą	0~±24A	0~±30A	0~±40A	0~±60A	0~±80A	0~±100A		
	Temperatu	ure H				±1() 0ppm/°C (rar	ige)				
AC Current	Setting r	ange	0~40Ap	pp	0~48App	0~60App	0~80App	0~120App	0~160App	0~200App		
Current reac (Visible annotatic	tion time		(Visible and Frequency	notatio y char	ns4) racteristic (TYP	value) DC~5kH:	z, voltage respo	nse time: 70 µ s	s. 100 μ s. 350 μ s. 100 μ s. 350 μ	s. 1ms optional		
Note 4: According The freque Note 5: Rising edg Note 6: Rise time: ` current ch	to the extern ncy characteri e time/falling When the out anges from tl	al model ir stics will cha edge time tput curren he rated cu	nput voltage, t ange based or (rated load, e t changes from irrent to 0A, t	the amp the Im excludir m 0A to he outp	plitude ratio of the ipedance value of th ng output ON/OFF of the rated current out current The var	output current is -30 he load. The Imperfor). According to the c , the change in outp riation of flow is betw	dB frequency (refere mance value of the l different times of loa ut current is 10% to veen 90% and 10% c	ence frequency 100H oad increases The tir d Impedance, it will 90% of the rated tir of the rated time.	Iz, reaction time 35 p ne-frequency charact also change. ne. Falling edge time	u s. Rated load). teristics decrease. e: When the output		
Accuracy			1									
	DC				±	(0.05% reading	g +0.05% range	e),T=(18℃~2	8°C)			
Voltage measurement	AC DC+AC				± (0.05 ± (0.59	5% reading +0.0 % reading +0.59	05% range) % range)(10	(5Hz-10kHz) , 0kHz-500kHz)	T=(18°C~28°C) ,T=(18°C~28°C))		
Current	DC				±	(0.5% reading	+0.5% range),T=(18°C~28°	°C)			
measurement	AC DC+AC		± (0.5% reading +0.5% range) (5Hz-10kHz) ,T=(18°C~28°C) ± (5% reading +10% range) (10kHz-300kHz) ,T=(18°C~28°C)									
Resolution F	Ratio											
Voltage settir	ng	DC、AC	. AC, DC+AC 0.001V (U≤60V), 0.01V (60V < U≤100V)									
Current Setti	ng	DC、AC	AC、DC+AC 0.001A (I≤60 A), 0.01A (60A < I≤500A)									
Voltage read	back	DC、AC	、DC+AC			0.001V (U≤6	50V), 0.01V (60)V < U≤100V)				
Current read	ing back	DC、AC	C DC+AC			0.001A (I≤6	0 A), 0.01A (60)A <i≤500a)< td=""><td></td><td></td></i≤500a)<>				

Protection Function

OVP Over voltage protection setting range	10 - 110%, Immediate shutdown of output beyond limit
OCP Over current protection setting range	0 - 105%, Immediate shutdown of output beyond limit
OTP Over temperature protection	Immediate shutdown of output beyond limit

Ambient Condition

Environment	Indoor use; Installation overvoltage level: II; Pollution level: P2; Class II equipment
Ambient temperature	0°C to 50°C, optional -10°C to 50°C, -20°C to 50°C, -40°C to 50°C
Storage environment temperature	-20°C to 65°C,
Working environment humidity	20%-90% RH, No condensation, continuous operation
Storage environment humidity	10% - 95% RH, No condensation
Altitude	Above an altitude of 2000 meters, the power decreases by 2% for every 100 meters increase, or the maximum working environment temperature decreases by 1 °C for every 100 meters; When not in operation, it can reach an altitude of 12000 meters
Burial	Forced air cooling, intelligent variable speed fan, front/side air inlet, rear air outlet
Noise	\leq 65dB(A), Weighted measurement with 1 m

Control Panel

Monitor	7-inch LCD display, touch screen
Control function	Number button input, multi-level shuttle knob adjustment (outer circle coarse adjustment/inner circle fine adjustment)Output ON/OFF switch, Lock keyboard and touch lock, Reset restart Status indicator light (Shift/Local/Remote/Alarm/Lock/Output)

Input Power Supply

Frequency	47 Hz - 63 Hz
Connection	Single phase two wire+ground wire, 220 V \pm 15%/three-phase four wire+ground wire, 380 V \pm 15%

HY-BP Series Upper Computer Testing Project

Upper Computer Description

- Equipped with upper computer software, saving development costs and time
- Simple and easy to operate, you can view all corresponding test standard items, double-click to open the settings page
- Scan the QR code on the right side, watch the operation demonstration, including connection communication and instructions for using the upper computer



ISO 16750-2 Standard testing items



Each test item can adjust the test content according to needs





Click on "Communication Settings" to open the serial port settings and connect to communication



When not online, simulation mode can be used

With arbitrary wave programming function, users can freely edit waveforms, store, and call according to their own testing situation.

B 汽车电子电性能测试			
□ 电池参数		40V	
限流(A) 10.00	电压(V) 27.00 <u>÷</u> ;÷ 试验后电压(V) 27.00 <u>÷</u>		
单步参数 1/2		201	
电压(V) 10.00) ÷ 频率 Hz ▼ 50.00 ÷ 対数 ▼ kH ▼ 25.00 ÷		
備移(∀) 27.00) 計 相位(*) 0 ご	ov	40- 60-
340 II 4	방상 모르 모이 것	205	405 005
30.11> 1E.52	NYTC S • 10.0 •		
线性 正弦 矩形	三角 指数升 指数降 删除	次數 1 土	⊖ DUT电源
运行状态			
			0% 0:00:20.0
		当前次	款 /
打开	保存 开始	暂停 停止	退出

The specific operation method can be scanned by QR code to watch the operation demonstration

15 汽车电子电性能测试				
一电池参数	rh (r. (m)	407		
限流(A) 10.00 ÷	电压(V) 27.00 元 试验后电压(V) 27.00 元			
● 単步参数 1/2 电压(V) 10.00 ÷	频率 Hz 🗾 50.00 🛨	207		
偏移(V) 27.00 ÷	対数 ▼ kH ▼ 25.00 ÷ 相位(°) 0 ÷	0V 0s 20s	40s	60s
波形 正弦	时长 🛛 💌 10.0 💼	<- 1# 2#		->
线性 正弦 矩形 三	角 指数升 指数降 删除	- 测试时间控制 次数 1 <u>士</u>	9	DUT电源
运行状态 ————————————————————————————————————				
			77%	0:00:04.6
) 日 日	前次數	0 / 1
打开保存	开始	暫停 停止		退出



HY-BP Series Upper Computer Testing Project



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Test completed or click 'Stop' to pop up 'Test Report' After completing the report on the page, "export the report" to the computer for saving;

15-5	测试日期	测试项目	测试设备	测试工程
4				
				L.
当前记录				
序号	测试日期	測试项目	测试设备	测试工程

Test record page, where you can view the records: click to enter the test Trial record page to view the current and historical records of the test.

The Upper Computer Software Is Equipped With Various International Testing Standards And Vehicle Enterprise Testing Standards

ISO16750-2Test items (ISO is an international standard, with a maximum voltage of 36V and a maximum sweep frequency of 25kHz)

Serial Number	Test Items	Notes
4.2	4.2 DC power supply voltage Verify device functionality at minimum and maximum power supply voltages for 12V and 24V system	
4.3 Overvoltage Simulate generator regulation failure, causing the generator output voltage to be higher the		Simulate generator regulation failure, causing the generator output voltage to be higher than normal
4.4 Super strong AC voltage Simulate the remaining AC power on a DC power source		Simulate the remaining AC power on a DC power source
4.5	Slow decrease and increase in power supply voltage Simulate the gradual discharge and charging of batteries	
4.6	Discontinuities in power supply voltage	
4.6.1	Instantaneous drop in power supply voltage	Simulate the effect of traditional fuse components melting in another circuit
4.6.2	Reset behavior during voltage drop	Verify reset behavior under different voltage drops (generally applicable to devices with reset function, such as devices containing microcontrollers)
4.6.3	Boot configuration File	lt's just a cold start
4.6.4	Load dump	Requires optional HY-7637-5a, 5b load shedding equipment
4.7	Reverse voltage	Check the DUT's ability to withstand reverse battery connection when using an auxiliary starting device
4.8	Ground reference and supply offset	Two power supplies are required for testing together, with a bipolar source providing \pm 1V
4.9	Open circuit test	Optional required HY-PSI 001
4.9.1	Single line interruption	Open circuit - single line interruption requires optional configuration HY-PSI 001
4.9.2	Multi line interrupt	Open circuit - multi line interruption requires optional configuration HY-PSI 001
4.11	Preset voltage	Safety testing
4.12	Insulation resistance	Safety testing
4.13v	Electromagnetic compatibility	

LV124 Electrical testing (maximum voltage up to 26V, sweep frequency up to 30kHz) LV: german car manufacturers AUDI, BMW, daimler, porsche, and volkswagen dominate this series of standards.

Serial Number	Test Items	Serial Number	Test Items
E01	Long term overvoltage	E09	Reset
E02	Transient overvoltages	E10	Short interruption requires optional HY-PSI 001
E03	Transient undervoltage	E11	Start pulse
E04	Start pulse	E12	Voltage curve with electrical system control
E05	Load drop	E13	Interrupt pin requires optional configuration HY-PSI 001
E06	Superimposed AC voltage	E14	Interruption plug requires optional configuration HY-PSI 001
E07	Slow decrease and slow increase of power supply voltage	E15	Reversed polarity
E08	Slow decrease and rapid increase of power supply voltage	E16	Ground offset requires two power supplies together

LV148Electrical testing (maximum voltage up to 70V, sweep frequency up to 200kHz) is a revision of the LV124 standard, which includes additional electrical performance tests for 48V electrical systems.

Serial Number	Test Items	Serial Number	Test Items
E48-02	Transient overvoltage, load dump	E48-11	Loss of grounding BN48
E48-03	Transient pulses within a lower operating range with functional limitations	E48-12	Ground offset
E48-04	Restore	E48-15	Operate within an unrestricted range of functionality
E48-05	Superimposed AC voltage	E48-16	Operate within the upper limit of limited functionality
E48-06	Slow decrease and slow increase in power supply voltage	E48-17	Operate within a lower range with limited functionality
E48-08	Reset behavior .	E48-18	Overvoltage range
E48-09	Short interruption	E48-19	Undervoltage range
E48-10	Turning pulse .		

GMW3172-2018 General electric testing (maximum voltage up to 26V, sweep frequency up to 25kHz)

Serial Number	Test Items	Serial Number	Test Items
9.2.1	parasitical current	9.2.11	Ground offset requires two power sources to be tested together, with a bipolar source providing \pm 1V
9.2.2	power interruption	9.2.12	Power offset requires two (three) power sources to be tested together, with a bipolar source providing ± 1V
9.2.3	Functional development in progress	9.2.13	Separate digital input voltage
9.2.4	Superimposed sinusoidal alternating voltage	9.2.16	Insulation resistance safety test
9.2.5	Superimposed pulse voltage	9.2.17	Crank pulse capability and durability
9.2.9	Open circuit - single line interruption requires optional configuration HY-PSI 001	9.2.18	Switched battery cables require optional configuration HY-PSI 001
9.2.10	Open circuit - multi line interruption requires optional configuration HY-PSI 001	9.2.19	Battery line transient requires optional configuration HY-PSI 001

ISO/DIS21780-48VInternational power supply voltage - Electrical requirements testing (maximum voltage up to 60V, sweep frequency up to 200kHz)

Serial Number	Test Items
10.1 Test-01	Standard voltage range
10.2 Test-02	Upper and lower transient voltage range
10.3 Test-03	Temporary overvoltage
10.4 Test-04	Power component load dump control test
10.5 Test-05	Boot configuration
10.6 Test-06	Long term overvoltage
10.7 Test-07	Overvoltage of consumer components that may provide electrical energy
10.8 Test-08	Reduction and increase of power supply voltage

Serial Number	Test Items
10.9 Test-09	Voltage fluctuation
10.10 Test-10	Reinitialize
10.11 Test-11	Power supply voltage interruption
10.12 Test-12	Grounding loss
10.13 Test-13	Fault current
10.14 Test-14	Ground offset tested together with two power supplies, with a bipolar source providing ± 1V
10.15 Test-15	Short circuit between signal line and load circuit
10.16 Test-16	quiescent current

SMTC3800001-2014 (V4) SAIC group electrical testing (maximum voltage up to 26V, sweep frequency up to 30kHz)

Serial Number	Test Items
5.1	Long term overvoltage
5.2	Transient overvoltage
5.3	Instantaneous low voltage
5.4	Jump voltage start
5.5	Load drop
5.6	Generator superimposed ripple voltage
5.7	Slow decrease/increase in working voltage
5.8	Slow decrease/rapid increase in power supply

Serial Number	Test Items
5.9	RESET TEST
5.10	Pulse voltage at engine start
5.11	Pin interruption requires optional configuration HY-PSI 001
5.12	Connector interruption requires optional configuration HY-PSI 001
5.13	Reverse polarity test
5.14	Ground offset (two power supplies tested together, with a bipolar source providing \pm 1V)
5.15	Short circuit protection between signal lines and driving circuits
5.16	Insulation impedance test (safety regulation test)
5.18	Quiescent current Test

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VW80000-2017 Volkswagen Electric testing (maximum voltage up to 27V, sweep frequency up to 200kHz)

Serial Number	Test Items	Serial Number	Test Items
8.1	Long term overvoltage	8.12	Voltage curve with on-board electrical system control
8.2	Transient overvoltages	8.13	Pin interruption requires optional HY-PSI 001 signal wire
8.3	Transient undervoltage	8.14	Connector interruption requires optional configuration HY-PSI 001
8.4	Quick start	8.15	Reverse polarity test
8.5	Throw load	8.16	Ground offset requires two power supplies to be tested together, with a bipolar source providing \pm 1V
8.6	Ripple	8.18	Insulation resistance safety test
8.7	Slow rise and fall of power supply voltage	8.19	Quiescent current
8.8	Slow drop and rapid rise of power supply voltage	8.20	Dielectric strength safety test
8.9	Reset characteristics	8.23	Equalizing the current of multiple power supply voltages
8.10	Short interruption requires optional HY-PSI 001 power cord	8.24	On/Off Durability test
8.11	Start pulse		

Q&WMJ073013A-2019 Weima Electric test (maximum voltage up to 18V, sweep frequency up to 25kHz)

Serial Number	Test Items	Se N	erial lumber	Test Items
6.2.2	Long term overvoltage	6	5.2.11	Open circuit - multi wire interruption optional required HY-PSI 001
6.2.3	Transient overvoltage	6	5.2.12	Ground offset tested together with two power supplies, with a bipolar source providing \pm 1V
6.2.4	Instantaneous low pressure	6	5.2.13	Two or three power sources are tested together for power offset, and the bipolar source provides \pm 1V
6.2.5	Power supply voltage transient	6	5.2.14	Reverse polarity test
6.2.6	Jump voltage start	6	5.2.17	Quiescent current
6.2.7	Superimposed ripple voltage	6	5.2.18	Insulation impedance
6.2.8	Power supply voltage decrease/increase	6	5.2.19	Ground path inductance sensitivity
6.2.9	RESET TEST	6	5.2.21	Discrete digital input threshold voltage
6.2.10	Open circuit - single line interruption Optional required HY-PSI 001	6	5.2.24	Power line transient

Serial Number	Test Items
Pulse1、Pulse2a	(Optional equipment required HY-7610) 60V,50A/ 80V,100A
Pulse3a、Pulse3b	(Optional equipment required HY-7630) 60V,30A
Pulse2b, Pulse4	No option required
Pulse5a、Pulse5b	(Requires optional load shedding equipment HY-7637-5a,5b) Adjustable internal resistance for load shedding

GB/T21437.2/ISO7637.2 (Transient anti-interference type test of power line - optional 7600 controller needs to be added)

VS-00.00-T-11019-A1-2015 (Maximum voltage up to 24V, sweep frequency up to 20kHz)

Serial Number	Test Items	Serial Number	Test Items
6.1	Standard voltage range	6.6	Voltage fluctuation
6.2	Upper and lower transient voltage range	6.7	Reinitialize
6.3	Temporary overvoltage	6.8	Power supply voltage interruption
6.4	Power component load dump control test	6.9	Grounding loss
6.5	Boot configuration	7.0	Fault current

7-Inch Large LCD Display Screen

1、Control panel description

- $\textcircled{1}_{\mathsf{v}}$ Power input circuit breaker;
- 7-Inch LCD display window display: voltage setting value Voltage and current measurement values, function settings menu;
- Function buttons: used for required numerical input and parameter settings;
- (4)、 Voltage setting key
- ⑤、 Shift Function reuse key
- 6、 Status
- ⑦、 Chassis handle
- (8), Multistage shuttle adjustment knob, with the inner circle adjusted one word at a time, and the outer circle divided into ± 8 adjustable segments;

电压 VOLTAGE

电 流 CURRENT

Vset 20.000

(5)

2022-01-01

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- (9)、 Lock lock, Enter confirmation, Esc exit Local, Reset restart/Alarm alarm, Output ON/OFF switch
- 0 , 19 Inch standard rack mounting holes
- (1), Red represents the+output terminal, while black represents the output terminal

2 、 Display description

- 1 Display of voltage/current measurement values;
- (2), Current measurement value display;
- (3), Voltage setting value display;
- ④、CV\CC Display;
- ⑤、Current time display;
- (6)、 Accumulated working time display;
- \bigcirc Current working hours;
- (8)、Set menu button for setting system parameters;
 (9)、Programming button, click to enter the ISO16750-2
- testing project interface;
- \circledast , Quickly increase and decrease voltage and current values during editing;
- $\textcircled{1}\$ Flipping function;
- (2)、 Real time temperature monitoring of the power supply, which can control the fan to dissipate heat for the power supply.

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 $(\mathbf{2})$

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设置

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27.3 °C

Vrms

Arms

3

20.000

HY-BP Series Model Size

Dimension

3U 482.6(W) * 660(D) * 133(H) mm







4U 430(W)*560(D)*178(H)mm



430±1mm



HY-BP Series Model Size

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34

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







HY-BP Series Model Size And Part Case



Cooperative Clients (Partial)

Aerospace And National Defense Military Industry Research Institute

CASC	cêsic				CETC	<u>C55</u>	
aerospace	CASIC	indust	ry Aei	rospace	CETC	CSSC	CSIC
CASC 800 institute	(Shanghai Aerospace Precision Ma Research Institute	achinery)	AVIC 603 institute	e (AVIC Xi'an Aircra Research Institut	ft Design and)	CETC 14 institute	(Nanjing Institute of Electronic Technology)
CASC 801 institute	(Shanghai Institute of Space Propu	llsion)	AVIC 613 institute	China Aviation In Electro Optic Equ	dustry Group Luoyang pment Research Institute)	CETC 21 institute	(Shanghai Micromotor Research Institute)
CASC 803 institute	(Shanghai Institute of Space Propu	lsion)	AVIC 615 institute	China Aviation In Electro Optic Equi	dustry Group Luoyang pment Research Institute)	CETC 23 institute	(Shanghai Transmission Line) Research Institute
CASC 804 institute	(Shanghai Aerospace Electronic Com (Equipment Research Institute	munication)	AVIC 618 institute	(Xi'an Automatic A of China Radio A	light Research Institute)	CETC 36 institute	(Research Institute)
CASC 805 institute	(Shanghai Aerospace Systems Engine Research Institute	eering)	AVIC 631 institute	(AVIC Aerospace Research Institute	Computing Technology)	CETC 38 institute	(East China Electronic Engineering) Research Institute
CASC 808 institute	(Shanghai Institute of Precision Metro and Testing	logy)	AVIC 105 factory	(Tianjin Aviation Ele	ctromechanical Co., Ltd)	CETC 50 institute	(Shanghai Microwave Technology) Research Institute
CASC 811 institute	(Shanghai Space Power Research In	stitute)	AVIC 115 factory	(Shaanxi Aviation Ele	ectric Co., Ltd)	CETC 51 institute	(Shanghai Microwave Equipment) Research Institute
CASC 812 institute	(Shanghai Satellite Equipment) Research Institute		AVIC 118 factory	(Shanghai Aviation El	ectrical Appliances Co., Ltd)	CETC 54 institute	(Shijiazhuang Communication Measurement) and Control Technology Research Institute
CASC 502 institute	(Beijing Institute of Control Engine	ering)	AVIC 181 factory	(Wuhan Aviation Ins	trument Co., Ltd)	CETC 55 institute	(Nanjing Institute of Electronic Devices)
CASC 510 institute	(Lanzhou Institute of Space Techno	logy Physics)	AVIC 607 institute	e (China Leihua Ele Research Institute	ctronic Technology)	CSIC 707 institute	(Tianjin Institute of Navigation Instruments)
CASIC 206 institute	e (Beijing Institute of Mechanical Eq	uipment)	AVIC 304 institute	e (Beijing Great Wa Technology Rese	l Metrology and Testing) arch Institute	CSIC 7107 institute	e (Shaanxi Aerospace Navigation) Equipment Co., Ltd
CASIC 307 factory	(Aerosun Corporation)		AECC 606 institut	e (Shenyang Engin	e Research Institute)	CSIC 719 institute	(Wuhan Second Ship Design and) Research Institute
CASIC 33 institute	(Institute 33 of Aerospace Science a Industry Third Institute	and)				CSIC 704 institute	(Shanghai Shipbuilding Equipment) Research Institute
CASIC 3651 factory	' (Guizhou Aerospace Linquan Mot	or Co., Ltd)				CSIC 726 institute	(Shanghai Institute of Ship Electronic (Equipment)

Jiangnan Shipbuilding (Group) Co., Ltd Nanjing Panda Electronics Co., Ltd

State owned 741 Factory (Nanjing East China Electronics Group Co., Ltd.)

Scientific Research & Third Party Quality Inspection Institutions



Institute of Physical and Chemical Technology (Beijing) Urban Environment Research Institute (Xiamen) Institute of Electrical Engineering (Beijing) Institute of Applied Physics (Shanghai)



SEARI 上海電器科学研究所(集团)有限公司 Shanghai Electrical Apparatus Research Institute (Group) Co., Ltd. が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



依册市质量技术监督检测院 Hangzhou Technical Supervision and Procuratorate

Cooperative Clients (Partial)

The Chinese People's Liberation Army

South China Sea Fleet East China Sea Fleet North Sea Fleet Navy Factory 701/702 4724 Factory (Shanghai Haiying Machinery Factory) 95861 Unit (Air First Base) The 5720th Factory of the People's Liberation Army of China

Military Academies And Local Universities



national university of defense technology Engineering University



Beihang University



University of Science and Technology of China



University of Electronic Science and technology



Huazhong University of Science and Technology



Xiamen University



Aerospace



Beijing Institute of Technology



Tsinghua University



Shanghai University



Xi'an Electronic Technology



power university

north china electric

Changchun Institute of Technology



Army Engineering

University

Harbin Institute

of Technology

Peking

University



Xi'an Jiaotong University





air force engineering university



Harbin Engineering University



Shanghai Jiaotong University



Shanghai Maritime University



Sichuan University



xiangtan university



Nanjing University

of Aeronautics

and Astronautics

Commercial Aviation

COMAC

Commercial Aircraft

Corporation of China Limited

GAMECO

Guangzhou Aircraft Maintenance

Engineering Co., Ltd









naval university of engineering

Dalian Naval

Academy





Nanjing University of Science and Technology

Tianjin

University







Dalian Maritime University





institute of aerospace engineering





zhejiang university Xi'an University of technology of technology



Naval Aviation

University

Collins Aerospace

Rockwell Collins

Ameco

Beijing Aircraft Maintenance

Engineering Co., Ltd

BP



Huazhong University of Science and Technology



South China University of Technology



Fudan University



University of Electronic Science and Technology of China









donghua university



















Cooperative Clients (Partial)



Official WeChat: hypower-cn



About us

Hangyu Power was founded in 2011 and is a national high-tech enterprise, Located in Songjiang, the birthplace of the G60 Science and Technology Innovation Corridor in the Yangtze River Delta, for over a decade Strive to provide customers with accurate, intelligent, and convenient testing power solutionsPlan.

Our company adheres to the product positioning of "specialty, precision, specialty, and novelty", and On the basis of targeting the market demand for "import substitution", propose "poor The development strategy of "differentiated import substitution" and "high-quality manufacturing"is committed to Innovative development of testing power supply technology in China, promoting the rejuvenation of science and technology in China The national cause is thriving.

Hangyu Power Series products cover power semiconductors, automotive electronics Aerospace, Defense and Military Industry, Low Voltage Electrical Appliances, Medical, Sensors Capacitors, inductors, smart grids, airborne, shipborne, weapons, ships.

Radar, communication, rail transit, power electronics, and other testing and other disciplines In the field of research, we strive to achieve perfect import substitution, with excellent military q uality and service,

Win unanimous praise from users.

Contact us

Tel: +86 1380 1800 699 Email:sales@hangyupower.com neo@hangyupower.com Address: Building 9, No. 615 Lianhe Road, Songjiang District, Shanghai, China website:www.hangyupower.com

2009	•	Establishing Shanghai Ouzu Electronics Brand
2010		Successfully delivered 400kVA high-power AC power supply
2011		Hangyu Power Supply was established and officially put into operation as a three-phase precision AC power supply and militaryUsing a gyroscope to test the power supply, replacing Russian made products
2012		Formal production of programmable variable frequency power supply and AC constant current source
2013	•	Formal production of programmable AC/DC power supply and HY-AE excitation power supply
2014		Formal production of high-power bipolar testing power supply
2015	•	Formal production of HY-PM series and HY-GT series new models Dual phase/three-phase gyroscope power supply
2016		HY-HP series programmable high-power DC power supply officially put into operation
2017		HY-HV series programmable high-voltage DC power supply officially put into operation
2018	•	HY-CTL/CTS capacitor testing high-frequency high current testing power supply And successfully delivered 100kHz, 100Arms
2019	•	Official production of high-speed power supply for automotive electronic testing within 500kHz
2020		Officially put into operation LV123 new energy vehicle testing high-voltage ripple testing power supply
2021	•	HY-UHS series ultra-high stability magnet power supply officially put into operation
2022	•	HY-HVL series linear high-voltage programmable DC power supply officially put into operation

