

specification

Project N0.	PYW000356-21010	Model.	BEH-400SX	
Rev.	S01	Engineer.	Dabiao Huang	

Prepare	Date	
Check	Date	
Approve	Date	

Change Reason and content:				



PYW Electronic technology co. LTD

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■特点:

- Global AC input: 180~264Vac
- Protection functions:output overcurrent /overvoltage/ overload /short functions
- Ultra wide working temperature range (-40 °C ~65 °C)
- 100% full load burn-in test
- High efficiency, long life and high reliability



■规格



★ Pictures for your reference

	■规格	LISTED			★ Pictures for y	our reference		
Model	Inote 注1		BEH-400S3.8	BEH-400S4.2	BEH-400S4.5	BEH-400S4.6	BEH-400S5	
	Rated output vol	tage	3.8V	4.2V	4.5V	4.6V	5V	
Outpu t	Output voltage s	etting range	3.80-3.90V	4.20-4.30V	4.50-4.60V	4.60-4.70V	5.00-5.10V	
	(Input 220Vac/ LOAD: 0A)							
	Adjustable outpu	ıt range@25°C	3.9V~5.10V	3.9V~5.10V				
	Rated output cui	rrent	80A					
	Rated output por	wer	400W					
	Ripple note 2 TA the	25 < Ta ≤ 70°C	Peak≤150mV (Testa	Peak≤150mV (Test after 15 minutes of work)				
	ambient temperature	0 < Ta ≤ 25°C	Peak≤200mV (Testa	Peak≤200mV (Test after 15 minutes of work)				
	Voltage accuracy	y @- 40~70℃	\pm 2% (The voltage is	$\pm 2\%$ (The voltage is measured at the power output port)				
	Source adjustme @-40~70°C	ent rate	±0.5%					
	Load Regulation@-40~70°C		±2%	$\pm 2\%$				
	Temperature C	Coefficient	±0.03%/℃					
	@-40~70°C							
	Start-up time		≤1S (220VAC input, Full load)& ≤2.5S (110VAC input, Full load)					
	Hold-up time		≥10mS (80% load)					
	Overshoot		<10%	<10%	<5%	<5%	<5%	
	Dynamic charac 0 <ta≤65°c< td=""><td>teristics</td><td colspan="4">8A-80A:<±500mV 40A-80A: <±400mV 8A-40A:<±300mV</td><td></td></ta≤65°c<>	teristics	8A-80A:<±500mV 40A-80A: <±400mV 8A-40A:<±300mV					
	Voltage range		180Vac~264Vac	180Vac~264Vac				
	Rated voltage		200Vac~240Vac / 47Hz~63Hz					
	Starting voltage		180VAC					
Input	Power factor		≥0.93 @ 230Vac; ≥0.95@ 120Vac					
iiiput	Efficiency (Type)		89.5%	90%	90%	90%	90.5%	
	(220VAC 80% lo	ad)						
	Input current (Max.)		<3.5A					
	Start-up Inrush Current		<80A@220Vac Cold star				400	
	Output OPP Hiccup mode		319.2~380W	352.8~420W	378~450W	386.4~460W	420~500W	
	Output OCP		84~100A(Hiccup mode)					
	Output OVP							
Prote	CCD		Use a copper wire with a sufficient cross-sectional area and a length of 15cm \pm 5cm directly to short-circuit the output port of the power					
ction	SCP		supply, which can be short-circuit for a long time, and automatically recover after eliminating the short circuit					
			The detection element o	f the overtemperature protect	tor is fixed on the housir	ng. When the temperature ri	se of the power housing is too	
	OTP		high due to abnormal conditions, such as overload, the thermostat will act and turn off the power output; The operating temperature of					
			the thermostat is 105°C±5°C,The recovery point is 75° ±5°					
				, - , r - ,				

	DON	GGUAN PYV	W ELECTRONICS TECH. CO.,LTD. Model: BEH-400SX Versions: S01		
	Working Tem. & humidity note 3 -40°C~65°C; 20%~90%RH No condensing (For details, see temperature derating curve)				
Work					
enviro	Storage Tem. & humidity -40°C~85°C; 10%~95%RH No condensing				
nment	Vibration		10 ~ 500Hz, 2G 10min./1cycle, period for60min. each along X,Y, Z axes		
	To attack		20G/11mS pulse ,3 times at each X,Y,Z axes		
	Altitude		3000m		
	Safety standard		Design meets EN62368 /GB4943 and other safety standards		
	Leakage currer		P-S≤0.25mA P-PE≤3.5mA		
	Insulation stren		Primary-Secondary: 3.0KVac/10mA/1min Primary-PE: 1.5KVac/10mA/1min Secondary-PE: 500Vac/10mA/1min		
	Insulation impedance 谐波 Harmaonic current		Primary-Secondary: ≥50M ohms@500Vdc Primary-PE: ≥50M ohms@500Vdc Secondary-PE: ≥50M ohms@500Vdc		
	增放 Harmaor		EN61000-3-2 CLASS D		
	□IVII	CE			
Safety		RE	1		
& EMC	EMS	CS	EN61000-4-6 Level3 criterionB		
		RS	EN61000-4-3 Leve3 criterionB		
		工频骚扰	EN61000-4-8 Level3 criterionB		
		ESD	EN61000-4-2 Level4 criterionB		
		EFT	EN61000-4-4 Level4 criterionB		
		Surge	EN61000-4-5 Level4 criterionB		
		DIPS	EN61000-4-11 criterionC		
	Dimensions (L*W*H)		235mm×60mm×30mm		
Other	Connection		Inputt : 3-bit 95 terminal block Output:4-bit 95 terminal block		
	Cooling way		Natural cooling		
Reliab	MTBF		100,000Hrs AT 25℃, MIL-217 Method 2 Components Stress Method		
ility	Life span 2 years@50°C FULL Load and Units Continuously Working				
	Note 1: Unless otherwise specified, all parameters are tested after 15min in the oven at room temperature.				

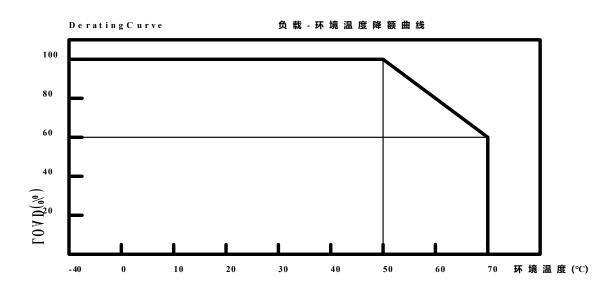
Derating Curve:

Notes

■ 1. Load current-ambient temperature derating curve: (To ensure reliable operation of the power supply, please use 80% of the rated load, combined with the derating curve)

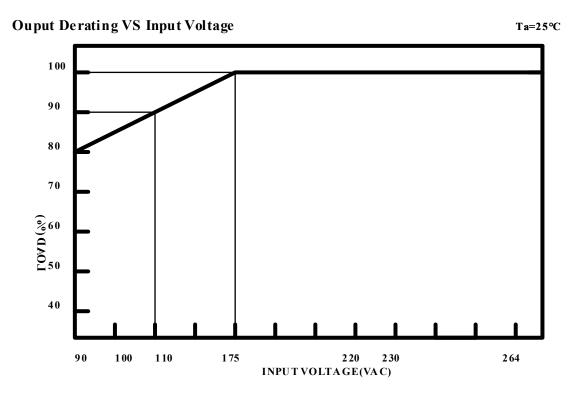
Note 2: For details, see the derating curve, positioning diagram, and installation mode description.

Note 3: Ripple noise is connected using 12# twisted pair, and at 20MHz bandwidth, 0.1uF and 10uF capacitors in parallel.

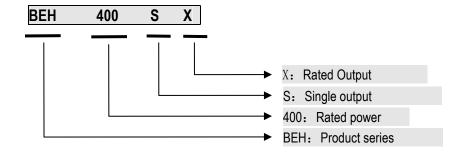




2. Load current-input voltage derating curve:



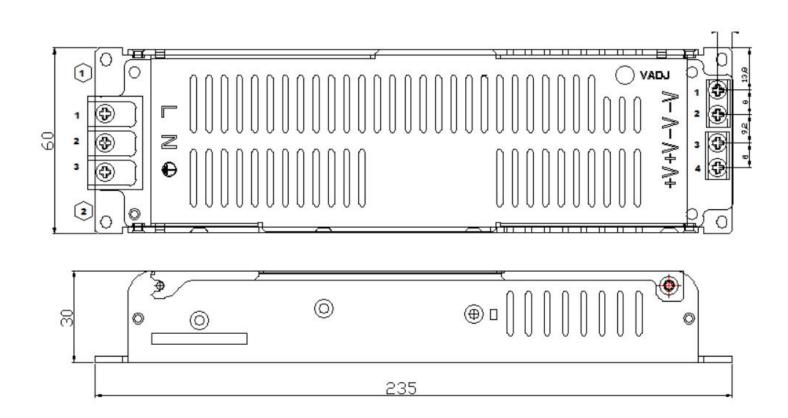
■ Specification code description:





■ Location map:

Unit: mm / Contour tolerance ±1.0



Product installation and instruction:

- Refer to the mechanical to select the appropriate installation. If necessary, the diameter of the kelly wire is no less than AWG #1.
- Make the electrical connection is correct, to avoid damage to the SPS or equipment: Input & Output, Ac & DC, Positive & negative, 2. Input Voltage Range.
- 3. Do not touch circuit board to avoid electric shock when SPS is working. Do not touch to avoid heat in three minutes after working. Do not touch the soldering side.
- Let it work at ventilated conditions to improve reliability. Do not make it ON/OFF too quickly. Any condition is out of the rated range, please contact FAE for suggestion.
- If the SPS works abnormally, do not open to repair except professional, contact FAE for support. 5.

Packaging, transportation, storage:

- Package: Unless customer's special demand, Product name, model, manufacturer logo in the box; Date of production can be traced
- 2. Transport: Product packaging is suitable for road, railway, air shipping and sea shipping, etc. Be to civilized handling, waterproof, anti-fall, and to avoid severe impact.
- Storage: Do not disassemble or take off the packing box when the product is not in use. Keep 20cm away from ground, and 50cm away from Wall, heat source and air inlet. The storage temperature and relative humidity shall be in accordance with the specifications, and Avoid strong mechanical vibration, shock and strong magnetic field. If the storage period is more than two years, it should be tested again before use.

Reference standard:

- 1. GB4943/EN60950/ EN62368: Safety of Information Technology Equipment.
- 2. **GB2324:** Basic environmental testing procedures for electric and electronic products.
- EN55022/ EN55024: Information technology equipment Radio disturbance characteristics Limits and methods of measurement 3.
- **IEC61000-4:** Electromagnetic compatibility (EMC) test and measurement techniques.
- IEC 61000-6-1: Standard and measurement of electromagnetic immunity for residential, commercial and light industrial 5. environments.
- 6. IEC 61000-6-2 : Standard and measurement of electromagnetic immunity for products used in industrial environment.
- 7. GB 17625.1-1998: The limits for the harmonic current from low-voltage electrical and electronic equipment (equipment input current≤16A per phase).
- 8. **GB/T 17626:** Electromagnetic compatibility testing and measurement techniques.
- **GB/T14714:** General specification for switching power supply of micro computer system equipment.
- 10. **GB/T9254-2008:** Radio disturbance limits and methods of measurement for information technology equipment.
- 11. DONGGUAN PYW ELECTRONICS TECH. CO.,LTD. Enterprise standard.

Statement

Class A statement

Warning

In a residential environment, running this device may cause radio interference.