

Specification

Project No.		Model	BEH-300SX
Rev.	S01	Engineer	

Prepare	Date	
Check	Date	
Approve	Date	

Change reason and content:		
	Sign:	



DONGGUAN PYW ELECTRONICS TECH. 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 $^{\circ}\text{C} \sim$ 65 $^{\circ}\text{C}$)
- 100% full load burn-in test
- High efficiency, long life and high reliability



Model: BEH-300SX

■规格

CE COH

★ Pictures for your reference

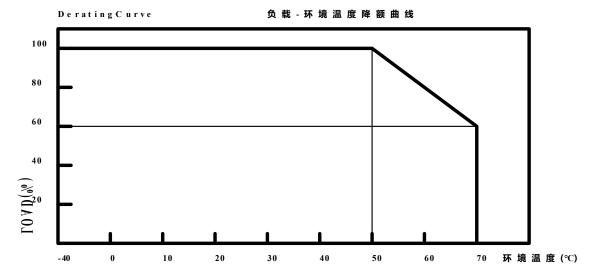
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Modelr	note 注1		BEH-300S3.8	BEH-300S4.2	BEH-300S4.5	BEH-300S4.6	BEH-300S5	
	Rated output vo	oltage	3.8V	4.2V	4.5V	4.6V	5V	
	Output voltage	setting range	3.80-3.90V	4.20-4.30V	4.50-4.60V	4.60-4.70V	5.00-5.10V	
	(Input 220Va	c/LOAD: 0A)						
	Adjustable output range@25℃		3.3V~5.10V					
	Rated output current		60A					
	Rated output power		300W					
	Ripple note 2 $25 < Ta \le 70\%$		Peak≤150mV (Test after 15 minutes of work)					
	TA the ambient temperature	70°C 0 < Ta ≤ 25°C	Peak≤200mV (Test after 15 minutes of work)					
Output	Voltage accura	cy @-40~70°C	$\pm 2\%$ (The voltage is i	measured at the power outp	ut port)			
	Source adjustn		±0.5%					
	@-40~70°C							
	Load Regulatio	n@-40~70°C	±2%					
	Temperature		±0.03%/°C					
	· '	Coemcient	工U.U3767 C					
	@-40~70℃							
	Start-up time			load)& ≤2.5S (110VAC ir	put, Full load)			
	Hold-up time		≥10mS (80% load) <10%	<10%	<5%	<5%	<5%	
	Overshoot Dynamic characteristics			•	-30A:<±300mV	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\376	
	0 <ta≤70℃< td=""><td>otoriotico</td><td>67 C 67 L = 200 mV</td><td>507 C 007 L = 100 MV</td><td>00/ ti / = 000 mV</td><td></td><td></td></ta≤70℃<>	otoriotico	67 C 67 L = 200 mV	507 C 007 L = 100 MV	00/ ti / = 000 mV			
	Voltage range		180Vac~264Vac					
	Rated voltage		200Vac~240Vac / 47Hz~63Hz					
	Starting voltage)	180VAC					
lnnut	Power factor		≥0.93 @ 230Vac; ≥0.	95@ 120Vac				
Input	Efficiency (Type	e)	89%	89.5%	89.5%	89.5%	90%	
	(220VAC 80%)	oad)						
	Input current (Max.)		<3.5A					
	Start-up Inrush Current		<80A@220Vac Cold start	T	T		T	
	Output OPP Hi	ccup mode	247~342W	273~342W	292.5~405W	299~414W	325~450W	
	Output OCP		60~90A (Hiccup mode)					
Protect ion	Output OVP							
	CCD		Use a copper wire with a sufficient cross-sectional area and a length of 15cm ±5cm directly to short-circuit the output port of the power					
	SCP		supply, which can be short-circuit for a long time, and automatically recover after eliminating the short circuit					
	ОТР							
Work	Working Tem. 8	Vorking Tem. & humidity note 3 40°C~65°C; 20%~90%RH No condensing (For details, see temperature derating curve)						
environ								
ment	Storage Tem. 8	humidity	-40°C~85°C; 10%~95%	6RH No condensina				
	Contago form a manuary 1 to 0 oc 5, 10 to 0 octobril 10 obtaining							

	Power your world DON	GGUAN PYW	VELECTRONICS TECH. CO.,LTD. Model: BEH-300SX Version: S01			
	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		5000m			
	Safety standards		Design meets EN62368 /GB4943 and other safety standards			
	Leakage current		P-S≤0.25mA P-PE≤3.5mA			
	Insulation strength		Primary-Secondary: 3.0KVac/10mA/ 1min Primary-PE: 1.5KVac/10mA/ 1min Secondary-PE: 500Vac/10mA/ 1min			
	Insulation impedance		Primary-Secondary: ≥50M ohms@500Vdc Primary-PE: ≥50M ohms@500Vdc Secondary-PE: ≥50M ohms@500Vdc			
	谐波 Harmaonic current		EN61000-3-2 CLASS D			
	EMI	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)		208mm×60mm×30mm			
Other	Connection		Inputt : 3-bit 95 terminal block Output:4-bit 95 terminal block			
	Cooling way		Natural cooling			
Reliabil	The second of th					
ity	Life span 2 years@50℃ FULL Load and Units Continuously Working					
	Note 1: Unless otherwise specified, all parameters are tested after 15min in the oven at room temperature.					
Notes	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.					

Derating Curve:

■ 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)

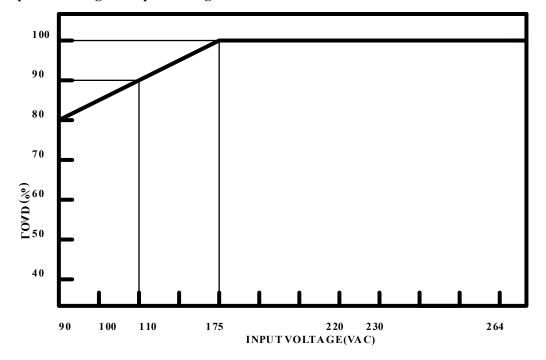




2. Load current-input voltage derating curve:

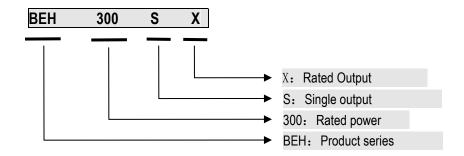






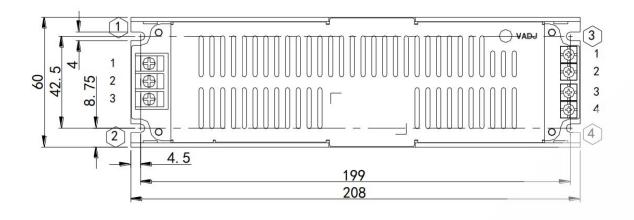
Specification code description:

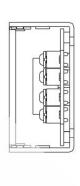




■ Location map:

Unit: mm / Contour tolerance ±1.0





Version: S01

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.