



Features:

- Universal AC input / Full range
- Refer to medical safety EN60601-1(2XMOPP)
- Protections: Short circuit /Over load /Over voltage
- Cooling by free air convection
- 3" x 2" compact size
- LED indicator for power on
- No load power consumption <0.1W
- Operating altitude up to 4000 meters
- 3 years warranty

Specification

MODEL		SOH-35-3.3	SOH-35-5	SOH-35-12	SOH-35-15	SOH-35-24	SOH-35-36	SOH-35-48	
INPUT	VOLTAGE RANGE	80 ~ 264VAC(refer to 'static characteristic')							
	FREQUENCY RANGE	47~63Hz							
	EFFICIENCY(Typ.)	80%	82%	88%	89%	89.5%	89.5%	90%	
	AC CURRENT(Typ.)	1A / 115VAC		0.5A / 230VAC					
	INRUSH CURRENT(Typ.)	30A/115VAC		60A/230VAC (cold start)					
	LEAKAGE CURRENT(max.)	Touch current< 100 μA/240VAC							
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V	36V	48V	
	RATED CURRENT	6.1A	6A	3A	2.4A	1.5A	1A	0.75A	
	CURRENT RANGE	0~6.71A	0~6.6A	0~3.3A	0~2.65A	0~1.65A	0~1A	0~0.82A	
	RATED POWER	20.1W	30W	36W	36W	36W	36W	36W	
	PEAK LOAD(10sec.)	22W	33W	39.75W	39.75W	39.6W		39.36W	
	RIPPLE & NOISE (max.)	80mVp-p	80mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p	
	VOLTAGE ADJ.RANGE	3.06~3.54V	4.7~5.5V	11.4~13.2V	13.5~16.5V	22.8~27.6V	32.4~39.6V	45.6~52.8V	
	VOLTAGE TOLERANCE	±2%	±2%	±2%	±2%	±1%	±1%	±1%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2%	±2%	±1%	±1%	±1%	±1%	±1%	
	SETUP, RISE TIME	500ms, 30ms / 230VAC		500ms, 30ms / 115VAC at full load					
HOLD UP TIME (Typ.)	30ms / 230VAC		16ms / 115VAC at full load						
PROTECTION	OVER LOAD	115 ~ 150% rated output power							
		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	3.7~4.5V	5.7~6.8V	13.8~16.2V	17.2~20.3V	28.4~32.4V	39.7~46.8V	55.2~64.8V	
	Protection type: Shunt down, recovers after repower on								
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	-20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	±0.03% /°C(0 ~ 50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	OPERATING ALTITUDE	4000 meters							

Safety and electromagnetic compatibility	Safety standards	Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1,EN60601-1(2XMOPP)		
	Withstand voltage and isolation resistance	I/P-O/P: 4KVac; 100MΩ / 500Vdc / 25°C / 70%RH		
	Electromagnetic	Parameter	Standard	Test Level / Note
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B
		Harmonic current	BS EN/EN61000-3-2,GB17625.1	Class A
		Voltage flicker	BS EN/EN61000-3-3	----
		BS EN/EN55035		
		Parameter	Standard	Test Level /Note
		ESD	BS EN/EN61000-4-2	Level 4, 8KV air, Level 2, 4KV contact, criteria A
Electromagnetic compatibility immunity		RF field susceptibility	BS EN/EN61000-4-3	Level 3, criteria A
		EFT bursts	BS EN/EN61000-4-4	Level 3, criteria A
		Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV/L-N, criteria A
		Conducted susceptibility	BS EN/EN61000-4-6	Level 3, criteria A
		Magnetic field immunity	BS EN/EN61000-4-8	Level 4, criteria A
		Voltage dips and interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods , >95% interruptions 250 periods
	OTHERS	MTBF	≥650Khrs MIL-HDBK-217F(25°C)	
DIMENSION		PCB: 76.2*50.8*24mm(L*W*H)		
PACKING		0.09Kg; 108pcs/10.7Kg/ 1CUFT		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 0% to 100% rated load</p> <p>6. Length of set up time is measured at cold first start, Turning ON/OFF the power supply very quickly may lead to increase of the set up time.</p> <p>7. The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft).</p> <p>8. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>9. Peak load 33% duty cycle maximum within every 30 seconds. Average output power should not be exceed the rated power.</p>			

Mechanical specification

Top View

Front View

NOTE:
Unit: mm
SVR1: Output adjustable resistor
TOL: ±1.00

AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Termina
1	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/L		

DC Output Connector (CN2) : JST B2P-VH or equivalent

Pin No.	Assignment	Mating Housing	Termina
1	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	-V		

Block diagram

