



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
- 1.8" × 2.5" compact size
- LED indicator for power on
- No load power consumption < 0.1 W
- Operating altitude up to 4000 meters
- 3 years warranty

Specifica	tion									
MODEL		HPS-15-3.3	HPS-15-5	HPS-15-7.5	HPS-15-12	HPS-15-15	HPS-15-24	HPS-15-27	HPS-15-36	HPS-15-48
INPUT	VOLTAGE RANGE	80~264Vac 120~370Vdc (refer to 'static characteristic')								
	FREQUENCY RANGE	47~63Hz								
	EFFICIENCY(Typ.)	85%	86%	86%	87%	87%	89%	89%	90%	91%
	AC CURRENT(Typ.)	0.4A/115Vac 0.2A/230Vac								
	INRUSH CURRENT(Typ.)	45A/230Vac (cold start)								
	LEAKAGE CURRENT	Touch current <100uA/240Vac								
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V
	RATEDCURRENT	3A	ЗА	2A	1.25A	1A	0.63A	0.56A	0.42A	0.32A
	CURRENTRANE	0~3.3A	0~3.3A	0~2.2A	0~1.4A	0~1.1A	0~0.69A	0~0.62A	0~0.46A	0~0.34A
	RATED POWER	9.9W	15W	15W	15W	15W	15.12W	15.12W	15.12W	15.36W
	PEAK LOAD(10 SEC.)	10.89W	16.5W	16.5W	16.8W	16.5W	16.56W	16.74W	16.56W	16.32W
OUTDUT	RIPPLE&NOISE(max.)	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	180mVp-p	200mVp-p	200mVp-p
OUTPUT	VOLTAGE ADJ.RANGE	3.1~3.6V	4.75 ~ 5.5V	7.13~8.25V	10.8~13.5V	13.5~16.5V	21.6~27V	24.3~29.7V	32.4~39.6V	43.2~52.8V
	VOLTAGE TOLERANCE	±2%	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1%	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms,30ms/230Vac 2000ms,30ms/115Vac								
	HOLD UP TIME(Typ.)	50ms/230Vac 10ms/115Vac at full load								
	OVERLOAD	115%~160% rated output power								
PROTECTION		Protection type: Hiccup mode ,recovers automatically after fault condition is removed.								
	OVER VOLTAGE	3.8~4.85V	5.75~6.75V	8.6~10.2V	13.8~16.2V	17.2~20.25V	27.6~32.4V	31~36.45V	41.4~48.6V	55.2~64.8V
		Protection type: Hiccup mode ,recovers automatically after fault condition is removed.								
ENVIRONIMENT	WORKING TEMP.	-30∼+70°C (Refer to 'derating curve')								
	WORKING HUMIDITY	20∼90% RH non–condensing								
	STORAGE TEMP., HUMIDITY	-40~+85℃, 10~95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	OPERATING ALTITUDE	4000 meters								
	VIBRATION	10~500Hz, 2G 10min./1 cycle, period for 60 min. each along X、Y、Z axes								

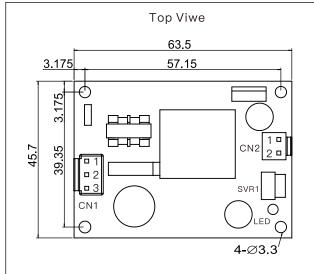


	Safety standards Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1,EN60601-1(2XMOPP)						
	Withstand voltage and isolation resistance	I/P-O/P: 4KVac; 100MΩ / 500Vdc / 25°C / 70%RH					
	Electromagnetic	Parameter	Standard	Test Level / Note			
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,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				
Safety and		BS EN/EN55035					
electromagnetic		Parameter Standard		Test Level /Note			
compatibility		ESD	BS EN/EN61000-4-2	Level 4, 8KV air, Level 2, 4KV contact, criteria A			
		RF field susceptibility	BS EN/EN61000-4-3	Level 3, criteria A			
	Electromagnetic	EFT bursts	BS EN/EN61000-4-4	Level 3, criteria A			
	compatibility immunity	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			
	MTBF	≥650Khrs MIL-HDBK-217F(25°C)					
OTHERS	DIMENSION	PCB: 63.5*45.7*24mm(L*W*H)					
	PACKING	0.06Kg; 180pcs/ 11.8Kg/ 1.38CUFT					
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair—wire terminated with a 0.1uF & 47uF parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 0% to 100% rated load 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. The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft). 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 un on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. Peak load 33% duty cycle maximum within every 30 seconds. Average output power should not be exceed the rated power. 						

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Mechanical specification



Front Viwe

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

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

Pin No	Assignment	Mating Housing	Terminal	
1	AC/L		ST SVH21T-	
2	No Pin	JST VHR or equivalent	P1.1 or	
3	AC/N	equivalent	equivalent	

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

Pin No	Assignment	Mating Housing	Terminal
1	+V	JST VHR or	ST SVH21T- P1.1
2	-V	equivalent	or equivalent

