

SOH120 series

120W single Output Medical Power





Features:

- Universal AC input 80~264VAC
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 4"X2" miniature size
- High efficiency up to 90%
- LED indicator for power on
- Cooling by free air convection for 84W and 120W with 10CFM forced air
- Built-in 12V/0.5A FAN supply
- Refer to medical safety (2XMOPP) according to ANSI/AAMI ES60601-1 and IEC/BS EN60601-1
- 3 years warranty

Specification									
MODEL		SOH120-12	SOH120-15	SOH120-24	SOH120-27	SOH120-36	SOH120-48		
INPUT	VOLTAGE RANGE		80~264VAC 120~370VDC (Refer to "Static characteristics")						
	FREQUENCY RANGE		47~63Hz						
	EFFICIENCY(Typ.)		89%	89%	89%	89%	90%	90%	
	AC CURRENT(Typ.)		2.3A/115VAC 1.2A/230VAC						
	INRUSH CURRENT(Typ.)		30A/115VAC 60A/230VAC (cold start)						
	LEAKAGE CURRENT		Earth leakage current<130uA/264VAC, touch current<40uA/264VAC						
	DC VOLTAGE		12V	15V	24V	27V	36V	48V	
	RATED CURRENT	10CFM	10A	8A	5A	4.44A	3.33A	2.5A	
		Convection	7A	5.6A	3.5A	3.11A	2.33A	1.75A	
	RATED POWER	10CFM	120W	120W	120W	119.88W	119.88W	120W	
		Convection	84W	84W	84W	83.97W	83.88W	84W	
ОИТРИТ	RIPPLE&NOISE (max.)		100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	
OUTPUT	VOLTAGE ADJ.RANGE		11.4~12.6V	14.2~15.8V	22.8~25.2V	25.6~28.4V	34.2~37.8V	45.6~50.4V	
	VOLTAGE TOLERANCE		±2%	±2%	±1%	±1%	±1%	±1%	
	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION		±1%	±1%	±1%	±1%	±1%	±1%	
	SETUP, RISE TIME		500ms,30ms/230VAC 500ms,30ms/115VAC						
	HOLD UP TIME(Typ.)		50ms/230VAC 10ms/115VAC						
	OVER LOAD		110%~150% rated output power						
			Protection type: Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION	OVER VOLTAGE		15~18V	18~24V	29~35V	35~42V	43.5~52.5V	56~66V	
			Protection type: Shunt down, recovers after repower on						
	OVER TEMPERATURE		Protection type: Shunt down, recovers after repower on						
FUNCTION	FAN SUPPLY		12V@ 0.5A for driving a fan; tolerance ±10% at main output 40% rated current(10CFM)						
ENVIRONIMENT	WORKING TEMP., HUMIDITY		-30∼+70℃ (Refer to " Derating curve") , 20∼90%RH non-condensing						
	STORAGE TEMP., HUMIDITY		-40~+85℃, 10~95%RH						
	TEMP. COEFFICIENT		±0.03%/°C(0~50°C)						
	VIBRATION		10∼500Hz, 2G 10min./1 cycle, each along X、Y、Z axes						



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	Safety standards	Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1,EN60601-1(2XMOPP)					
		I/P-O/P: 4KVac; 100MΩ / 500Vdc / 25°C / 70%RH					
	Withstand voltage and isolation resistance	I/P-FG: 2KVac; 100MΩ / 500Vdc / 25°C / 70%RH					
	Isolation resistance	O/P-FG: 1.5KVac; 100MΩ / 500Vdc / 25°C / 70%RH					
	Electromagnetic	Parameter	arameter Standard				
		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 4, 2KV/L-N, 4KV/L/N-FG 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	≥500Khrs MIL-HDBK-217F(25°C)					
OTHERS	DIMENSION	PCB: 101.6*50.8*29mm(L*W*H)					
	PACKING	0.19Kg; 96pcs/19.24Kg/1.51CUFT					
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 union a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. 						

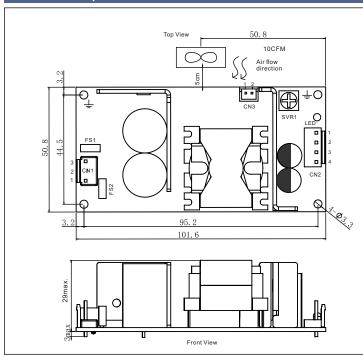


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Mechanical specification



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

Designator	Connector	Function	PIN NO.	Assignment
	0.17	AC input	1	AC/N
CN1	CJT A3963WV-3P- A or equivalent		2	NC
			3	AC/L
CN2	CJT	DC output	1~2	+V
	A3963WV-6P or equivalent		3~4	-V
CNIC	CJT A2501WV-2P	12V Fan supply	1	-V
CN3	or equivalent		2	+V

Block diagram

