

HTSP-320F-48 Switching Power Supply



Protections: Short circuit, Over Load,
Over Voltage, Over Temperature
Fixed switching frequency at 90 KHz
Forced Air Cooling by Built-in DC Fan
100% full load High Temperature burn-in test

1、 Input parameter
1.1 AC input voltage range: 88~264VAC
1.2 AC input voltage frequency: 47~63Hz
1.3 AC input current: 6A/115V 3.5A/230V
1.4 AC inrush current: Cold start, 18A/115VAC 36A/230VAC
1.5 Efficiency: 89%
1.6 Power Factor: PF>0.95/230VAC
1.7 Leakage current: <3.5mA/240VAC
2、 Output parameter
2.1 DC output voltage: 48VDC
2.2 DC output rated current: 6.7A
2.3 DC output current range: 0~6.7A
2.4 DC output rated power: 320W
2.5 Ripple & Noise (max): 250mVp-p(Refer to the Test Method of R&N)
2.6 DC output voltage adjustment range (min): 44~52V



2.7 DC output voltage tolerance: $\pm 0.5\%$
2.8 DC output line regulation: $\pm 0.5\%$
2.9 DC output load regulation: $\pm 0.5\%$
2.10 Power setup time: $\leq 2000\text{mS}$ at full load
2.11 Power rise time: $\leq 20\text{mS}$ at full load
2.12 Power hold time: $\geq 24\text{mS}$ at full load
3、 Protection
3.1 Over Load: 105%~135% Hiccup Mode, Auto-recovery
3.2 Over Voltage: 115%-145% rated output voltage
3.3 Short Circuit: Hiccup Mode, Auto-recovery
3.4 Over Temperature: The fan start to work when temperature reach 40°C , Shut off when Temperature reach 80°C
4、 Working environment
4.1 Working temperature range: -10°C to 50°C , $-20^{\circ}\text{C}@80\%$, $65^{\circ}\text{C}@50\%$ load
4.2 Working humidity range: 20~90%RH
4.3 Storage temperature range: $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
4.4 Storage humidity range: 10~95%RH
4.5 Temperature coefficient: $\pm 0.03\%/^{\circ}\text{C}$ ($0 \sim 50^{\circ}\text{C}$)
4.6 Vibration: 10~500Hz, 2G, 10min/cycle, 60min, each along X, Y, Z axes
5、 Safety & EMC
5.1 Safety standards: Meets UL60950-1



5.2 EMC standards: Meets EN55022 Class B

5.3 Withstand voltage: I/P-O/P:3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC

5.4 Isolation resistance: I/P-O/P、 I/P-FG、 O/P-FG: 100M Ω /500VDC

6、 Others

6.1 MTBF: 100, 000 hours min, MIL-HDBK-217F(25 $^{\circ}$ C)

6.2 Dimension: 214*115*50 (L*W*H)

6.3 Connection: 9P/9.5mm pitch terminal block

6.4 Weight: 1.1Kg/pcs

6.5 Packing: 17pcs/Carton, 18.70Kg