

# HTSP-600F-48 Switching Power Supply



Protections: Short circuit, Over Load,  
Over Voltage, Over Temperature  
Fixed switching frequency at 50KHz  
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: 180~260VAC
1.2 AC input voltage frequency: 47~63Hz
1.3 AC input current: 5A/115VAC
1.4 AC inrush current: Cold start, 60A/230VAC
1.5 Efficiency: 90%
1.6 PFC >0.98@230VAC
1.7 Leakage current: $\leq 3.5\text{mA}/240\text{VAC}$
2、 Output parameter
2.1 DC output voltage: 48V
2.2 DC output rated current: 12A
2.3 DC output current range: 0~12A
2.4 DC output rated power: 576W
2.5 Ripple & Noise (max): 480mVp-p(Refer to the Test Method of R&N)
2.6 DC output voltage adjustment range (min): Adjust from 20% to 100% output



range by external control 5~1VD
2.7 DC output voltage tolerance: $\pm 1.0\%$
2.8 DC output line regulation: $\pm 0.5\%$
2.9 DC output load regulation: $\pm 0.5\%$
2.10 Power setup time: 800ms/230VAC rated load
2.11 Power rise time: 400ms/230VAC rated load
2.12 Power hold time: 12ms/230VAC rated load
3、 Protection
3.1 Over Load: 105%~115% Current Limiting, Delay Shutdown
3.2 Over Voltage: 110%-135% rated output voltage
3.3 Short Circuit: Delay Shutdown
3.4 Over Temp: The fan start to work while the temperature reach 70°C, When the temperature rise to 80°C, Shut off
4、 Working environment
4.1 Working temperature range: -10°C to 50 °C, -20°C@80%,60°C@60% load
4.2 Working humidity range: 20~90%RH
4.3 Storage temperature range: -40°C ~+85°C
4.4 Storage humidity range: 10~95%RH
4.5 Temperature coefficient: $\pm 0.03\%/^{\circ}\text{C}$ (0~50°C)
4.6 Vibration: 10~500Hz, 2G, 10min/cycle, 60min, each along X, Y, Z axes
5、 Safety & EMC



5.1 Safety standards: UL60950-1,TUV EN60950-1

5.2 EMC standards: EN55022 Class B

5.3 Withstand voltage: I/P-O/P:3KVAC I/P-FG: 1.8KVAC O/P-FG: 0.6KVAC

5.4 Isolation resistance: I/P-O/P、 I/P-FG、 O/P-FG: 100M $\Omega$  /500VDC

## 6、 Others

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

6.2 Dimension: 291\*120\*68 (L\*W\*H)

6.4 Weight: 2.5Kg/pcs

6.5 Packing: 6pcs/Carton, 15Kgs