



HTS-100M-5 Switching Power Supply

Protections: Short circuit, Over Load
Fixed switching frequency at 50KHz
Free Air Cooling Convection
100% full load High Temperature burn-in test

1、 Input parameter
1.1 AC input voltage range: 176V~264VAC
1.2 AC input voltage frequency: 47~63Hz
1.3 AC input current: 1A/230VAC
1.4 AC inrush current: Cold start, 35A/230VAC
1.5 Efficiency: 76%
1.6 Leakage current: $\leq 3.5\text{mA}/240\text{VAC}$
2、 Output parameter
2.1 DC output voltage: 5V
2.2 DC output rated current: 20A
2.3 DC output current range: 0~20A
2.4 DC output rated power: 100W
2.5 Ripple & Noise (max): 100mVp-p(Refer to the Test Method of R&N)
2.6 DC output voltage adjustment range (min): 4.5V~5.5V
2.7 DC output voltage tolerance: +1%



2.8 DC output line regulation: $\pm 0.5\%$
2.9 DC output load regulation: $\pm 0.5\%$
2.10 Power setup time: 1000mS/230VAC
2.11 Power rise time: 50mS/230VAC
2.12 Power hold time: 20mS/230VAC
3、 Protection
3.1 Over Load: 110%~150% Hiccup Mode, Auto-recovery
3.2 Short Circuit: Hiccup Mode, Auto-recovery
4、 Working environment
4.1 Working temperature range: -10°C to 40°C @100%, 60°C @60% load
4.2 Working humidity range: 20~90%RH
4.3 Storage temperature range: -25°C ~ $+85^{\circ}\text{C}$
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: Design refer to GB4943,UL60950-1,EN60950-1
5.2 EMC standards: Design refer to GB9254,EN55022 Class A
5.3 Withstand voltage: I/P-O/P、 I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC
5.4 Isolation resistance: I/P-O/P、 I/P-FG、 O/P-FG: $100\text{M}\Omega$ /500VDC



6、 Others
6.1 MTBF: 100, 000 hours min, MIL-HDBK-217F(25℃)
6.2 Dimension: 159*98*42 (L*W*H)
6.3 Connection: 5P/8.5mm pitch terminal block
6.4 Weight: 0.50Kg/pcs
6.5 Packing: 32pcs/Carton, 16Kgs