

ARPJ-HTC362800 (100W, 2800mA, PFC)



Protections: Open Load, Short circuit, Over
Voltage, Over Temp
100% full load burn-in test
2 years warranty

Switch Power Supply

1、 Input parameter
1.1 AC input voltage range: 100~277VAC
1.2 AC input voltage frequency: 47~63Hz
1.3 AC input current: MAX 1.15A/100VAC
1.4 AC inrush current: Cold start <65A
1.5 Efficiency: typical value 91%
1.6 Power Factor: Full Load, PF>0.9
1.7 THD: Full Load, THD<20%
1.7 Leakage current: <3.5mA/277VAC
2、 Output parameter
2.1 DC output rated current: 2.8ADC
2.2 DC output voltage: 36VDC
2.3 DC output voltage range: 24V~36V
2.4 DC output rated power: 100W
2.5 Ripple & Noise (max): 140mVp-p (Measured by switching power supply Ripple & Noise testing)



2.6 DC output current adjustment range: $\pm 3\%$
2.7 DC output current range: $\pm 1\%$
2.8 DC output load regulation: $\pm 1\%$
2.10 Power setup time: 500mS at rated load
2.11 Power rise time: 80mS at rated load
2.12 Power hold time: 16mS at rated load
3、 Protection
3.1 Open Load: Constant voltage 38V limit, Auto-recovery
3.2 Short Circuit: Hiccup Mode, Auto-recovery
3.3 Over Voltage: Protection range 41V~44V, Restart and Auto-recovery
3.4 Over Temperature: $110^{\circ}\text{C} \pm 10^{\circ}\text{C}$; Shut off, when temperature fall down, auto-recovery
4、 Working environment
4.1 Working temperature range: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$ refer to Derating Curve
4.2 Working humidity range: 20~90%RH
4.3 Storage temperature range: $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$
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, 5G, 12min/cycle, 72min each along X, Y, Z axes
5、 Safety
5.1 Safety standards: Meets EN61347-1, EN61347-2-13 independent IP67



5.2 Withstand voltage: I/P-O/P: 3.75KVAC I/P-FG: 2KVAC O/P-FG:
0.5KVAC

5.3 Isolation resistance: I/P-O/P、I/P-FG、O/P-FG: 100M Ω /500VDC/25 $^{\circ}$ C
/70%RH

5.4 Electromagnetic Compatibility: EN55015, EN55022 (CISPR22) Class B

6、Others

6.1 MTBF: 50,000 hours , 25 $^{\circ}$ C

6.2 Dimension: 183*68*39 (L*W*H)

6.3 Weight: 0.9Kg/pc

Derating Curve



