



SPECIFICATION

MODEL NO. : PSH750(R,Q,S,V)-C01
750 WATTS SWITCHING POWER SUPPLY
VERSION 0.2(D)
< Jan.23,2007 >

DESCRIPTION	SPECIFICATION FOR 750W POWER SUPPLY		
MODEL NO.	<i>PSH750(R,S,Q,V)</i>		
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1.0 INPUT:**1.1 VOLTAGE**

MINIMUM	NOMINAL	MAXIMUM	UNITS
90	100~240	264	Vrms

1.2 FREQUENCY

47Hz ~ 63Hz

1.3 CURRENT

115Vac / 10.0A max. 230Vac / 5A max.

1.4 INRUSH CURRENT55A max. when AC input 115Vac at 25⁰C cold start.110A max. when AC input 230Vac at 25⁰C cold start.**1.5 POWER EFFICIENCY****80% (min.) at full load(typical) and 115Vac input.****1.6 LEAKAGE CURRENT**

3.5mA max.

1.7 POWER FACTOR

PF > 0.9

2.0 OUTPUT:

Voltage	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	-12V	+5Vsb
* ① Max load	28.0A	30.0A	18.0A	18.0A	18.0A	18.0A	0.8A	3.0A
Min load	2.0A	0.5A	1.0A	1.0A	1.0A	1.0A	0.0A	0.0A
Peak load	--	--	--	--	--	--	--	3.5A
* ③ Regulation	+5,-4%	+5,-3%	+5,-4%	+5,-4%	+5,-4%	+5,-4%	+9,-5%	+5,-3%
* ② Ripple & Noise	50mV	50mV	120mV	120mV	120mV	120mV	120mV	50mV

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- *① The continuous total output power is 750W max.
 - The combined power of +5V and +3.3V is 180W max.
 - Peak currents may last up to 12 seconds with not more than one occurrence per minute.
 - Total combined +12V output load not exceed 60A
 - *② Add 0.1uF and 10uF capacitors across output terminal during ripple & noise test.

*③ LOAD REGULATION TEST TABLE:

	+5V	+3.3V	+12V ₁	+12V ₂	+12V ₃	+12V ₄	-12V	+5V _{sb}
LOAD1	2.0A	0.5A	1.0A	1.0A	1.0A	1.0A	0.0A	0.0A
LOAD2	6.0A	4.0A	1.0A	1.0A	1.0A	1.0A	0.0A	0.5A
LOAD3	16.0A	30.0A	2.5A	2.5A	3.0A	3.0A	0.3A	1.0A
LOAD4	28.0A	13.0A	8.5A	9.0A	10.0A	10.0A	0.3A	1.0A
LOAD5	7.0A	6.0A	13.0A	13.0A	14.0A	14.0A	0.5A	1.5A
LOAD6	28.0A	0.5A	11.0A	12.0A	13.0A	13.0A	0.5A	2.0A
LOAD7	4.0A	3.0A	14.0A	14.0A	13.0A	13.0A	0.8A	2.5A
LOAD8	2.0A	30.0A	11.5A	13.0A	13.0A	14.0A	0.8A	3.0A

2.1 REMOTE ON/OFF

TTL High/PS-OFF; TTL Low/PS-ON

$V_{IL}=0.8V_{max}$, $I_{IL}=-1.6mA_{max}$ @ $V_{in}=0.4V$

$V_{IH}=2.0V_{min}$ @ $I_{in}=-200\mu A$, $V_{IH}=5.25V_{max}$ @ open ckt.

2.2 HOLD-UP TIME

16msec (minimum) at 80% of full load at 230Vac input.

2.3 POWER GOOD DELAY

100-500 msec.

2.4 POWER FAIL DELAY

>1 msec.

2.5 TURN-ON DELAY TIME

2000 msec max. At Nominal Line Full Load.

2.6 TRANSIENT OVERTHOOT

+/- 10% max with 20% load change on all outputs are 50% of the rated.

Load slew rated 0.5A/uS and capacitive load as below :

+5V	+3.3V	+12V ₁	+12V ₂	+12V ₃	+12V ₄	-12V	+5Vsb
1000uF	1000uF	2200uF	2200uF	2200uF	2200uF	NA	1uF

2.7 RISE TIME

20ms max at full load.

3.0 PROTECTION:

When OCP, OVP or short protection is triggered, the main outputs will be latched off. The main outputs can be reset by cycling the DC remote on/off or AC power. +5Vsb output is auto recovery when fault condition removed.

3.1 OVER CURRENT PROTECTION

Not over 240VA for every output voltage.

3.2 OVER VOLTAGE PROTECTION

+3.3V output 4.5 Vmax.

+5.0V output 7.0 Vmax.

+12.0V output 15.6 Vmax.

3.3 SHORT PROTECTION

All output to GND.

4.0 ENVIRONMENT:

4.1 OPERATING TEMP.	10 °C to +50 °C
4.2 STORAGE TEMP.	-20 °C to +70 °C
4.3 OPERATING HUMIDITY	20% to 90%,non-condensing
4.4 STORAGE HUMIDITY	5% to 95%, non-condensing
4.5 OPERATING ALTITUDE	0 to 10,000 feet
4.6 STORAGE ALTITUDE	0 to 50,000 feet

5.0 HI-POT:(Input/Output isolation)

5.1 PRIMARY TO SECONDARY

3535Vdc for 3 seconds

5.2 INSULATION RESISTANCE

Primary to earth ground 500Vdc , 50M ohms Min.

6.0 CE REQUIREMENTS

6.1 CONDUCTED EMI

1. MEET FCC : Class B
2. MEET CISPR 22 : Class B
3. MEET BSMI : Class B

6.2 SAFETY STANDARDS

1. MEET CUL (UL 60950)
2. MEET TUV EN60950
3. MEET CB (IEC 950)
4. MEET CE
5. MEET CCC

6.3 HARMONIC

MEET IEC1000-3-2,Class D

7.0 MTBF at 25°C(demonstrated)

100K hrs minimum

8.0 DIMENSIONS

Y=P WxLxH=150x140x86mm **80mm FAN x1 IN FRONT**

Y=Q WxLxH=150x160x86mm **120mm FAN x1 ON TOP & 80mm FAN x1 NEAR OUTPUT WIRE**

Y=R WxLxH=150x160x86mm **80mm FAN x1 IN FRONT & 80mm FAN x1 IN REAR**

Y=S WxLxH=150x140x86mm **120mm FAN x1 ON TOP**

Y=V WxLxH=150x160x86mm **140mm FAN x1 ON TOP**