



PRODUCT SPECIFICATIONS

CRS-C8075-14 750W SWITCHING POWER SUPPLY

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1.0 INPUT:

1.1 VOLTAGE

Minimum: 90Vrms

Nominal: 100~240Vrms

Maximum: 264Vrms

1.2 FREQUENCY

47Hz ~ 63Hz

1.3 CURRENT

115Vac / 10.0A max. 230Vac / 5.0A max.

1.4 INRUSH CURRENT

55A max. when AC input 115Vac at 25°C cold start.

110A max. when AC input 230Vac at 25°C cold start.

1.5 POWER EFFICIENCY

80% minimum under the load conditions defined in below table and 115Vac input.

Loading Table for Efficiency Measurements:

750W (loading shown in Amps)								
Load	+12V1	+12V2	+12V3	+12V4	+5V	+3.3V	-12V	+5Vsb
Full	48.40				17.00	18.10	0.80	3.00
Typical	24.30				8.50	9.10	0.40	1.50
Light	9.70				3.40	3.60	0.20	0.60

1.6 LEAKAGE CURRENT

3.5mA max.

1.7 POWER FACTOR

PF > 0.9

2.0 OUTPUT

Voltage	+12V1	+12V2	+12V3	+12V4	+5V	+3.3V	-12V	+5Vsb
Max. load* ¹	18.0A	18.0A	18.0A	18.0A	28.0A	30.0A	0.8A	3.0A
Min. load	1.0A	1.0A	1.0A	1.0A	2.0A	0.5A	0A	0A
Peak load	--	--	--	--	--	--	--	3.5A
Regulation* ²	+5/-4%	+5/-4%	+5/-4%	+5/-4%	+5/-4%	+5/-3%	+9/-5%	+5/-3%
Ripple&noise* ³	120mV	120mV	120mV	120mV	50mV	50mV	120mV	50mV

*1 The continuous total output power is 750W max.
 The combined output power of +5V and +3.3V is 180W max.
 Peak current may last up to 12 seconds with no more than one occurrence per minute.

Total combined +12V output should not exceed 60A

*2 Add 0.1 μ F and 10 μ F capacitors across output terminals during the ripple&noise test.

*3 Load regulation test table:

	+12V1	+12V2	+12V3	+12V4	+5V	+3.3V	-12V	+5Vsb
LOAD1	1.0A	1.0A	1.0A	1.0A	2.0A	0.5A	0A	0A
LOAD2	1.0A	1.0A	1.0A	1.0A	6.0A	4.0A	0A	0.5A
LOAD3	2.5A	2.5A	3.0A	3.0A	16.0A	30.0A	0.3A	1.0A
LOAD4	8.5A	9.0A	10.0A	10.0A	28.0A	13.0A	0.3A	1.0A
LOAD5	13.0A	13.0A	14.0A	14.0A	7.0A	6.0A	0.5A	1.5A
LOAD6	11.0A	12.0A	13.0A	13.0A	28.0A	0.5A	0.5A	2.0A
LOAD7	14.0A	14.0A	13.0A	13.0A	4.0A	3.0A	0.8A	2.5A
LOAD8	11.5A	13.0A	13.0A	14.0A	2.0A	30.0A	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 μ 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 OVERSHOOT

+/- 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 :

+12V1	+12V2	+12V3	+12V4	+5V	+3.3V	-12V	+5Vsb
2.200 μ F	2.200 μ F	2.200 μ F	2.200 μ F	1.000 μ F	1.000 μ F	N/A	1 μ F

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

240VA for every output

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 CISPR22: 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

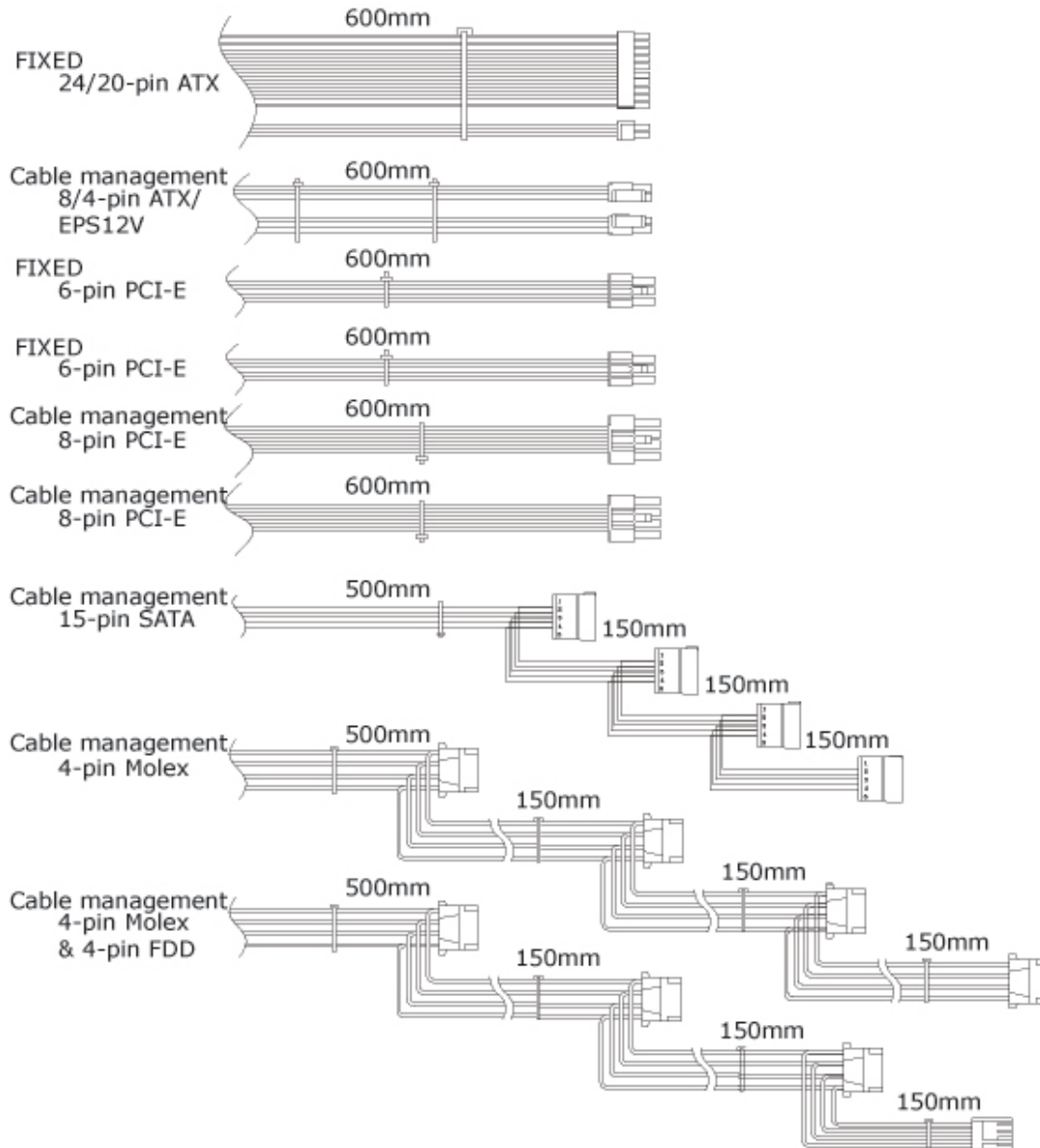
7.0 MTBF at 25°C (demonstrated)

100K hrs minimum

8.0 DIMENSIONS

WxHxD = 150x86x160mm

9.0 CABLING



All specifications are subject to change without prior notification.