Toll Free: 1-888-865-6888

Tel: 510-226-8368 Fax: 510-226-8968 Email: sales@RackmountMart.com

Mini Redundant Power Supply

800W+800W

Model No. PS3032

Table	e of content	
1. Int	roduction	1
2. Spe	ecification	
Inj	put Voltage	1
DO	C Output	1
PS	S-ON (Remote ON/OFF)	2
PV	V-OK(power good signal)	2
Ef	ficiency	2
Н	old-Up Time	2
3. PR	OTECTION	
3.1	Over Voltage protection	2
3.2	Short Circuit Protection	2
3.3	Over Power Protection	3
3.4	No Load operation	3
4. Env	vironment Temperature	3
5. Rel	iability	3
6. EM	II/RFI	3
7. Inst	tructions	3
8. HO	T-SWAP Procedures	4
9. PIN	NOUTS of connectors	4
Col	or Reference for LED cable	4
Ma	in Power Connector	5
0 Din	nension	6

1. Introduction

PS3032 The Series products of **Hot-Swap & Power Sharing** redundant Power supply provides increased reliability when integrated a variety of series is ideally suited to telecommunications and Systems. The **PS3032** Industrial system, as well as a variety of other applications where system Never shut down i. E. Zero down time.

PS3032 series redundant power supply, it consists of

- * One of passive Back plane.
- * One of exothermal enclosure.
- * Two of compact size power modules with Hot-Pluggable connector made by Germany.
- * Screw package.
- * Alarm reset bottom.
- Features
- * PS/2 Size design.
- * Hot-Swappable & Power Sharing capability.
- * MEET EN61000-3-2 CLASS D (ACTIVE PFC).
- * High Efficiency.

2. Specification

AC Input Voltage 100 to 240 \pm 10% / Input Frequency 47Hz \sim 63Hz.

DC Output: 800W maximum

VOLTAGE	+5V	+12V	+3.3V	-12V	-5V	+5Vsb
MAX. LOAD	32A	65A	32A	0.8A	-	3.5A
MIN. LOAD	2A	2A	1A	0.1A	-	0.1A
REGULATION	± 5%	± 5%	± 5%	±10%	-	± 5%
RIPPLE(mV)	50	120	50	150	-	50

Note:

- 1. The combined total power from +5V and +3.3V shall not exceed 150W. The combined total power from +5V and +12V & +3.3V shall not exceed 775W
- 2. Noise Test Noise bandwidth is from DC to 20 MHz.
- 3. Ripple frequencies greater than 1MHz shall be attenuated by the measurement System.
- 4.Add 0.1uF/10uF capacitor at output connector terminals for ripple and noise measurements.

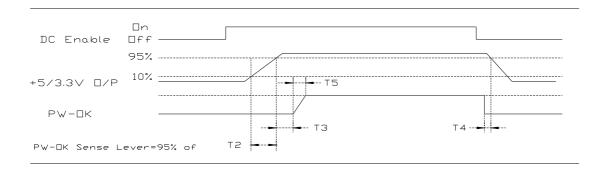
2.3 **PS-ON**

Remote On/Off Control:

When PS-ON is pulled to TTL Low, the DC output is to be enabled. When PS-OFF is pulled to TTL high, the DC output is to be disabled.

2.4 **PW-OK**

PW-OK is power good signal and should be asserted high by the power supply to indicate that +5VDC and +3.3VDC output are above the under voltage thresholds of the power supply TTL. compatible signal out with 100ms to 500ms.



Timing of PS-ON, PW-OK, and Germane Voltage Rails

Although there is no requirement to meet specific timing parameters,

The following signal timings are recommended:

 $2ms \le T2 \le 200ms$

 $100 \text{ms} \leq T3 \leq 500 \text{ms}$

T4 > 1ms

 $T5 \leq 10ms$

- 2.5 Efficiency: > 80% at full load. (Normal Line)
- 2.6 Hold-Up Time: 16ms at maximum load & normal input voltage.

3. PROTECTIONS

3.1 OVER-VOLTAGE PROTECTION

Standard on +5.0V output, set at $6.25VDC \pm 075VDC$.

3.2 SHORT CIRCUIT PROTECTION

A short circuit placed between the DC Return and the output shall cause No damage and the power supply shall shutdown.

3.3 OVER POWER PROTECTION

The power supply shall shut down when output power exceeds 130% to 160% of full load and require a power on cycle be performed by the operate

3.4 NO LOAD OPERATION

No parts shall be damaged on the power supply.

4. ENVIRONMENT TEMPERATURE

- 4.1 Operation Temperature: 0° C to 50° C
- 4.2 Cooling: By forced air
- 4.3 Storage Temperature: -20° C to 70° C
- 4.4 Humidity: 5 to 90% non-condensing.

5. RELIABILITY

5.1 MTBF OF POWER SUPPLY ELECTRONIS

80,000 hours at full load and 25°C ambient temperature

5.2 LIFE EXPECTANCY OF FAN

40.000 hours at 40° C

6. EMI/RFI

FCC part 15, Subpart B, Class B

EN55022 CISPR22 Class B, CE Make

EN61000-3-2

EN61000-3-3;1995

EN61000-4-2, -3, -4, -5, -6, -8, -11

7. INSTRUCTIONS

The set still works properly even if either unit is removed. The removed unit can't be used in other machinery nor for other purpose. When one unit breaks down, it's LED will blink, buzzer will sound. Push the Reset button and buzzer will stop.

REDUNDANCY Offer redundant function for power system and mutually backs

up the outputs. A zero transfer time when backup takes place.

HOT-SWAP The power system provides a Hot-Swap function. This means

> when either one of the redundant power supplies fails or breaks down, you can easily replace failed unit without any interference

to the system.

BUZZER A warning buzzer sounds when any one of the power supplies

fails. The warning buzzer is reset table from reset switch either

the one in front control panel or the one on the rear side.

LED'S The warning LED'S can be found either on the rear side or the

control panel of the power system. Tells if one of the two power

supplies has failed, by LED blinking.

(4)

HOT-PLUGGABLE The power system provides a Hot-Pluggable function

This method allows the power units in the Disk Array/ File Server to be removed or inserted very easily without

8. HOT-SWAP PROCEDURES

Please refer to the followings when either one power supply unit is fount defective.

- A) Locate the defective power supply by examining the individual LED on the power unit or the LED on the front control panel if LED is Blinking.
- B) Unlock & Remove the defective power supply unit.
- C) Replace a new GOOD power supply unit, Insert the power supply into the power system chassis in position & it will auto Lock-up.
- **D**) Turn on the new power supply unit.
- E) Check the module LED which indicate the power and LED of total power system status, Both LED shall Have steady life.

9. PINOUTS OF CONNECTORS

- 1 x 24Pin (for motherboard)
- 1 x 8Pin Connector
- 1 x 4Pin Connector
- 10 x H.D.D.
- 2 x Floppy
- 6 x S.ATA
- 2 x PCI-E 6Pin

* Color Reference for LED cable

POWER # 1 LED Cable Brown / with Red / with POWER #2 LED Cable MAIN POWER LED Cable Green / with

10. DIMENSION

L 200 x W150 x H 86 mm / 7.874 x 5.905 x 3.385 (inches)

