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Mini Redundant PS II Power Supply

300W+300W for IPC-Computer

Model No. SS-300R8P

Mode	1 No. 55-300K8P			
Versio	on: vA4			
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1. Introduction

The 300R8P Series products of **Hot-Swap & Power Sharing** redundant Power supply provides increased reliability when integrated a variety of Systems. The 300R8P series is ideally suited to telecommunications and Industrial system, as well as a variety of other applications where system Never shut down i. E. Zero down time.

SS-300R8P 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.

2. Specification

2.1 AC Input Voltage: 100~240V, 47Hz ~ 63Hz. (Active PFC)

2.2 DC Output: 300W maximum

VOLTAGE	+5V	+12V	+3.3V	-12V	+5Vsb	
MAX. LOAD	20A	22A	20A	0.8A	2A	
MIN. LOAD	3A	2A	0.3A	0.1A	0.1A	
REGULATION	± 5%	± 5%	± 5%	±10%	± 5%	
RIPPLE(mV)	50	120	50	120	50	

Note:

- 1. The combined total power from +5V and +3.3V shall not exceed 120W.
- 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.

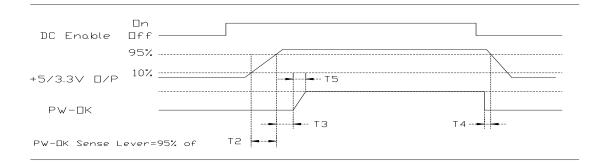
2.3 **PS-ON**

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:

 $2ms \le T2 \le 200ms$ $100ms \le T3 \le 500ms$

T4 > 1ms

 $T5 \leq 10ms$

- 2.5 Efficiency: $\geq 73\%$ 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 40° C

4.2 Cooling: By forced air

4.3 Storage Temperature:-20 $^{\circ}$ C to 70 $^{\circ}$ C

4.4 Humidity: 5 to 90% non-condensing.

5. RELIABILITY

5.1 MTBF OF POWER SUPPLY ELECTRONIS

100,000 hours at full load and 25°C ambient temperature

5.2 LIFE EXPECTANCY OF FAN

40.000 hours at 40° C

6. AGENCY APPROVALS

CB、CE、TUV、UL、BSMI、CCC.

Please visit our website and get the latest safety certificate.

7. EMI /RFI

CB、CE、TUV、UL、BSMI、CCC、C-Tick..

Please visit our website and get the latest EMC certificate.

8. 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.

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

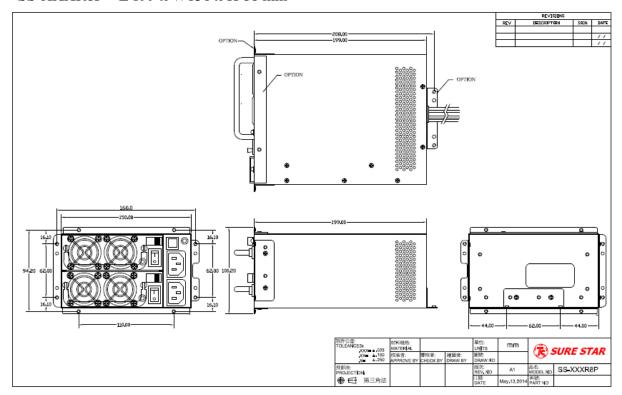
9.HOT-SWAP PROCEDURES

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.

10.DIMENSION

SS-XXXR8P L 199 x W150 x H 86 mm



11.PINOUTS OF CONNECTORS

ATX or EPS (20+4)Pin x 1, M8P+12V Power Connector x 1, M4P+12V Power Connector x 1, H.D.D. x 7, Floppy x 1.

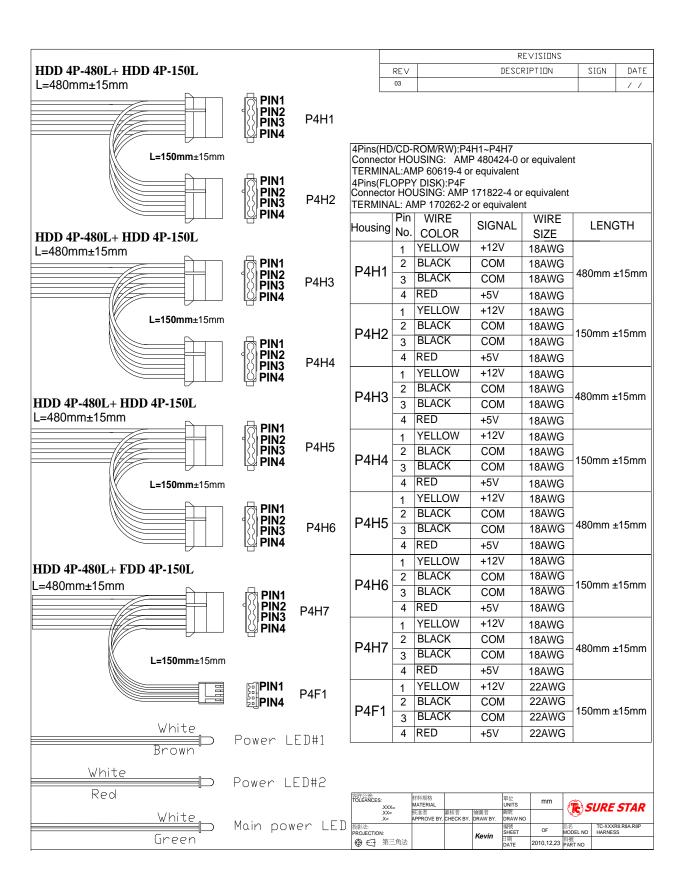
* Color Reference for LED cable

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

	REVISIONS								
	REV			DESCRIPT	ΙΠΝ	S	IGN	DATE	
L	01							/ /	
L=470mm±20mm	24Pins(E Connecto TERMINA	or HOL	JSING: MOI	LEX 39-01-2 -0039 or eq	240 o uivale	or equiva	lent		
PIN24 DO PIN12	Housing	Pin No.	WIRE COLOR	LENGTH	Pin No.	WIRE COLO		NGTH	
		1 0	RANGE(+3.3V)	470mm/18AWG		DRANGE(+3 DRANGE(+3		nm/18AW(nm/22AW(
		2 0	RANGE(+3.3V)	470mm/18AWG	14	BLUE(-12V) 470r	nm/18AW(
		3 E	BLACK(GND)	470mm/18AWG	15	BLACK(GN	D) 470r	nm/18AW	
P24		4 F	RED(+5V)	470mm/18AWG	16	GREEN(PS	-ON) 470r	nm/20AW	
P24	D0.4		BLACK(GND)	470mm/18AWG	17	BLACK(GN	D) 470r	nm/18AW(
	P24	_ I	RED(+5V)	470mm/18AWG	1 1	BLACK(GN	D) 470r	nm/18AW(
		1 - 1	BLACK(GND)	470mm/18AWG		BLACK(GN	D) 470r	nm/18AW0	
PIN13 DO PIN1		_ I	GRAY(PG)	470mm/20AWG		NC			
		-	URPLE(+5VSB)	470mm/18AWG	1 1	RED(+5V)		nm/18AW(
			ELLOW(+12V)	470mm/18AWG		RED(+5V)		nm/18AW(
				470mm/18AWG		RED(+5V)		nm/18AW(
	op: (EB			470mm/18AWG	24	BLACK(GN	D) #70r	nm/18Avv	
		or HOL	JSING: MOI	LEX 39-01-0 -0060 or eq			lent		
L=480mm±20mm	Housing	Pin No.	WIRE COLOR	SIGNAL	WI	RE PE	LEN	GTH	
			BLACK	COM		WG			
PIN8 DD PIN4		2 E	BLACK	COM	18A	WG			
PIN5 DO PIN1		3 E	BLACK	COM	18A	WG			
PIN5 DE PIN1	P8	4 E	BLACK	COM		WG	80mm	+20mm	
	FO	1 1	/ELLOW	+12V		WG	480mm ±20mm		
			/ELLOW	+12V		WG	-		
			YELLOW	+12V		WG			
		1 - 1	/ELLOW	+12V	18A	WG			
	Connect	or HO		LEX 39-01-0 0-0060 or ed			alent		
L=480mm±20mm	Housing	Pin	WIRE	SIGNAL	WI	IRE	LENG	GTH	
	lodoling		COLOR			PE		0111	
PIN4 GOD PIN2 P4			BLACK	COM		WG			
	P4		BLACK	COM	1	WG 4	480mm ±20mn		
	' '	1 1	ELLOW/ELLOW	+12V +12V	_	WG			
		-		TIZV	IOA	WG			
607年八城-	材料規模	ite I		III Ere					
FÖLEANCES:	10177901	10		單位	mm	-000			

OF B名 MODEL NO 2011,11,02 P就 PART NO

Kevin



Note: Specification and wiring diagram subject to change without notice.