

TOPOWER COMPUTER

TOP-300SSR



1. SCOPE :

This specification describes performance and characteristic of model TOP-300SSR (300W + 300W) ATX Redundant Power Supply.

2. DIMENSION : (DxWxH) 6.85"x5.9"x3.3" / 174x150x86(mm)

3. AC INPUT :

3-1. AC Input : 95VAC to 264 VAC (Auto Switch)

3-2. Frequency : 50HZ~60HZ

3-3. Inrush Current :

20A maximum at 110VAC user cold start

40A maximum at 220VAC user cold start

4. DC OUTPUT :

4-1. DC Output :

| Voltage | Min. Current | Max. Current | Wire color |
|---------|--------------|--------------|------------|
| +3.3V | 0.3A | 16A | Purple |
| +5V | 8A | 30A | Red |
| +12V | 4A | 12A | Yellow |
| -5V | 0.1A | 0.5A | White |
| -12V | 0.1A | 0.8A | Blue |
| +5V SB | 0.1A | 1.5A | Brown |

⊙+5V & +3.3V output maximum 150W.

⊙+5VSB Peak for 2.0A

⊙ 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

4-2. Output Regulation :

| Voltage | Load Regulation | Line Regulation | Gross Regulation | Ripple & Noise |
|---------|-----------------|-----------------|------------------|----------------|
| +3.3V | +/- 5% | +/- 1% | +/- 5% | 40mV p-p max. |
| +5V | +/- 5% | +/- 1% | +/- 5% | 100mV p-p max. |

| | | | | |
|------|---------|---------|---------|----------------|
| +12V | +/- 6% | +/- 1% | +/- 6% | 150mV p-p max. |
| -5V | +/- 10% | +/- 1% | +/- 10% | 100mV p-p max. |
| -12V | +/- 10% | +/- 10% | +/- 10% | 240mV p-p max. |

4.3. Short Circuit Protection :

All output equipped with short circuit protection

4-4. Over Power Protection :

Peak power protected to between 130%to 160%of continuous rated power

4.5 Over Voltage Protection:

Standard on +5V output, set at 6.25VDC+-0.75VDC

4.6. Hot – Swappable And Power Sharing :

■ 5. GENERAL SPECIFICATION :

5-1. Efficiency : >=67% at full load 300W continuous maximum output

5-2. Operation Temperature : 0°C To 55°C

5-3. Storage temperature : -20°C To 70°C

5-4. Humidity : 5 to 90% non-condensing

5-5. Hold Up Time :

16mS at maximum load and normal input voltage

5-6. MTPF : 100,000 hours at full load and 25°C ambient temperature

5-7. Life Expectancy of Fan: 40,000 hours at 40°C

5.8 Agency Approvals: UL 1950 QQGQ2, UL 1950QQGQ8, TUV Rheinland(EN60950, IEC950 mod), CB Certification

5.9. EMI Requirement :

EN 50081-1(1992) : EN 55022 : 1994/A1 : 1995 Class B

EN 61000-3-2/1995

EN 61000-3-3/1995

EN 50024-1(1998) : EN 61022-4-2/1995 EN 61022-4-3/1995

EN 61022-4-4/1994 EN 61022-4-5/1995

EN 61022-4-6/1996 EN 61022-4-8/1993

EN 61022-4-11/1994

6. INSTRUCTIONS :

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



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