

VS75P

SPECIFICATIONS

A220-01-01-A

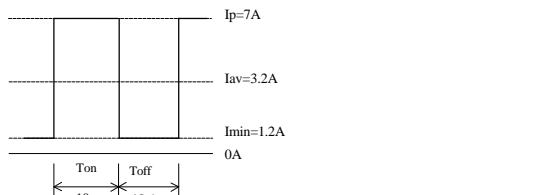
| MODEL | | VS75P-24 |
|-------|--|--|
| ITEMS | | |
| 1 | Nominal Output Voltage | - 24V |
| 2 | Minimum Output Current | - 0A |
| 3 | Average Output Current | - 3.2A |
| 4 | Peak Output Current (*1) | - 7.0A |
| 5 | Average Output Power | - 76.8W |
| 6 | Peak Output Power (*1) | - 168W |
| 7 | Efficiency (Typ) (*2) | - 83.0% |
| 8 | Input Voltage Range (*3) | - 85-132VAC (47-440Hz) or 110-175VDC |
| 9 | Input Current (Typ) (*2) | - 1.9A |
| 10 | Inrush Current (Typ) (*4) | - 30A at 100VAC,cold start Ta:25°C |
| 11 | Output Voltage Range | - 21.6 ~ 26.4 |
| 12 | Maximum Ripple & Noise (*5) $0 \leq Ta \leq 60^{\circ}\text{C}$ | 180mV |
| | $-10 \leq Ta < 0^{\circ}\text{C}$ | 240mV |
| 13 | Maximum Line Regulation (*5,6) | 96mV |
| 14 | Maximum Load Regulation (*5,7) | 150mV |
| 15 | Maximum Temperature Drift (*5,8) | 240mV |
| 16 | Over Current Protection (*9) | 7.1A ~ at Ta:25°C |
| 17 | Over Voltage Protection (*10) | 115% ~ 135% |
| 18 | Hold-Up Time (Typ) (*2,13) | 17ms |
| 19 | Leakage Current (*11) | Less than 0.75mA |
| 20 | Parallel Operation | - |
| 21 | Series Operation | Possible |
| 22 | Operating Temperature (*12) | Convection: -10~50°C:100%, 60°C:70% |
| 23 | Operating Humidity | 30 ~ 90%RH (No dewdrop) |
| 24 | Storage Temperature | -30 ~ +85°C |
| 25 | Storage Humidity | 10 ~ 95%RH (No dewdrop) |
| 26 | Cooling | Convection Cooling |
| 27 | Withstand Voltage | Input-Output : 2kVAC(20mA), Input-FG : 2kVAC(20mA) Output-FG : 500VAC(100mA) 1min. |
| 28 | Isolation Resistance | More than 100MΩ at Ta:25°C and 70%RH Output-FG 500VDC |
| 29 | Vibration | At no operating, 10-55Hz (sweep for 1min) 19.6m/s^2 Constant, X,Y,Z 1hour each |
| 30 | Shock | Less than 196.1m/s^2 |
| 31 | Safety | Approved by UL60950, CSA60950, EN60950 & Built to meet DENAN |
| 32 | EMI (*13) | Built to meet VCCI-B & FCC class B |
| 33 | Weight (Typ) | 280g |
| 34 | Size (WxHxD) | mm 50 x 29 x 222 |

* Read instruction manual carefully , before using the power supply unit.

Fig.A

==NOTES==

- *1. Operating time at peak output current is less than 10sec. with average output power and current (Duty=0.35). Please refer to Fig.A.& A220-01-03_.



- *2. At 100VAC and average output power, Ta=25°C.
- *3. For cases where conformance to various safety specs are required to be described as 100-120VAC, 50/60Hz on name plate.

- *4. Not applicable for the inrush current to Noise Filter for less than 0.2ms.

- *5. Please refer to Fig B for measurement determination of line & load regulation and output ripple voltage.

- *6. 85-132VAC, constant load.

- *7. Min load - full load (Average output power), constant input voltage.

- *8. -10 ~ +50°C constant input voltage and load.

- *9. Current limiting with automatic recovery. Avoid to operate at over load or dead short for more than 30 seconds.

- *10. OVP circuit will shutdown output, manual reset (Re power o

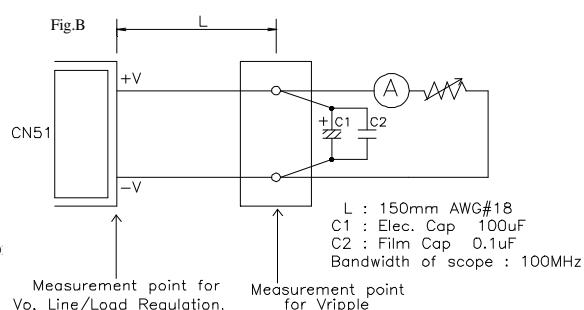
- *11. Measured by each measuring method of UL, CSA, EN and DENAN (at 60Hz).

- *12. At standard mounting method Fig C. Refer to derating curve (A220-01-02_).

- Load(%) is percent of average output load.

Do not exceed derating in both average output power and current.

- *13. At 3.2A continuous output current condition.



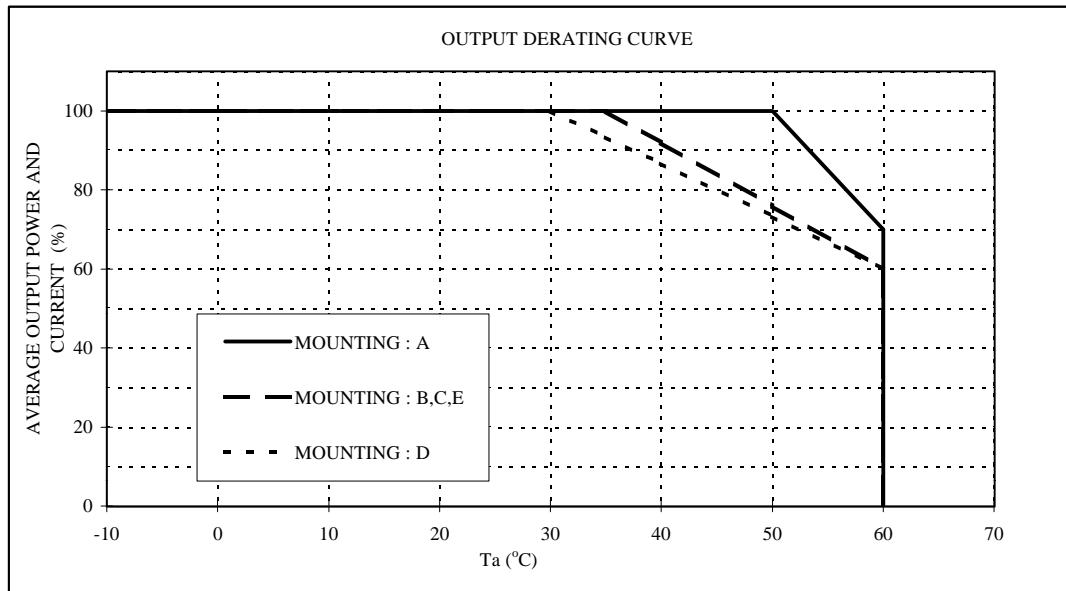
Probe: JEITA RC-9131



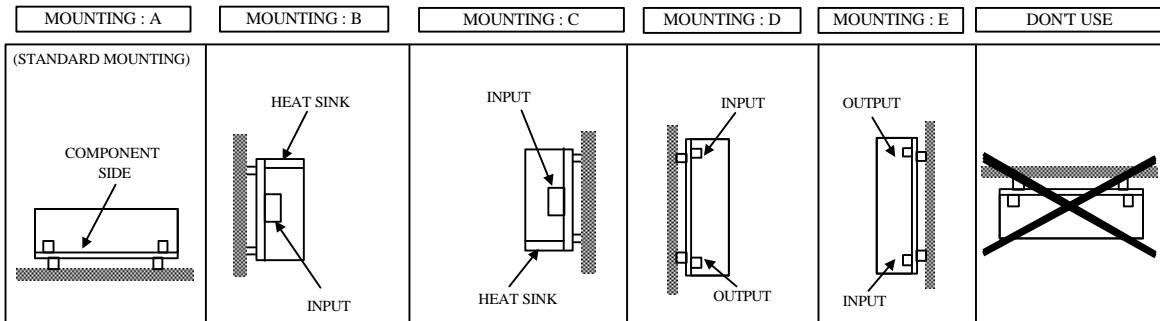
VS75P**OUTPUT DERATING**

A220-01-02-A

| Ta (°C) | AVERAGE OUTPUT POWER AND CURRENT (%) | | |
|---------|--------------------------------------|------------------|--------------|
| | MOUNTING : A | MOUNTING : B,C,E | MOUNTING : D |
| -10 | 100 | 100 | 100 |
| 0 | 100 | 100 | 100 |
| 30 | 100 | 100 | 100 |
| 35 | 100 | 100 | 93.3 |
| 50 | 100 | 76 | 73.3 |
| 60 | 70 | 60 | 60 |

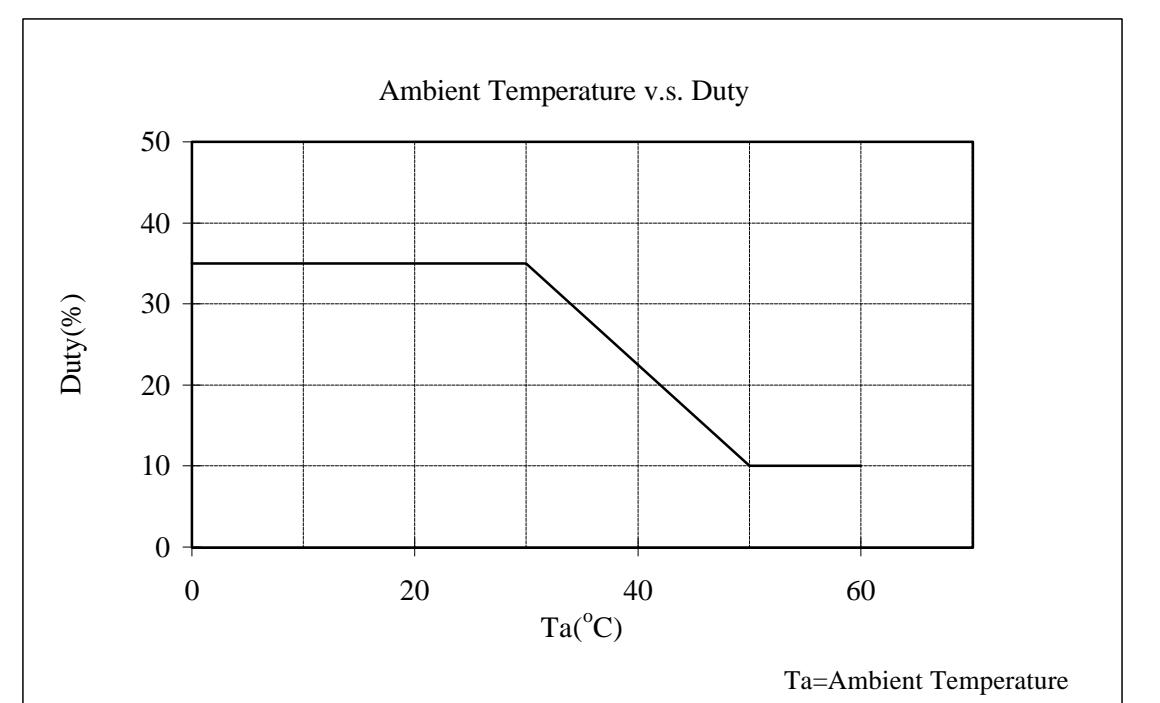


*PEAK OUTPUT CURRENT DOES NOT NEED



VS75P**Peak Output Current Condition**

A220-01-03

**Peak Output Current**

Relation between average output current and peak output current must satisfy formulas below. Also operating time at peak output current should be less than 10 sec.

