

VS50P

SPECIFICATIONS

A219-01-01-B

MODEL			VS50P-24
ITEMS			
1	Nominal Output Voltage	-	24V
2	Minimum Output Current	-	0A
3	Average Output Current	-	2.5A
4	Peak Output Current (*1)	-	4.2A
5	Average Output Power	-	60W
6	Peak Output Power (*1)	-	100.8W
7	Efficiency (Typ) (*2)	-	83.0%
8	Input Voltage Range (*3)	-	85-132VAC (47-440Hz) or 110-175VDC
9	Input Current (Typ) (*2)	-	1.3A
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≤Ta≤60°C	180mV
		-10≤Ta<0°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)	-	4.3A ~ 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:40%
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)	-	200g
34	Size (WxHxD)	mm	50 x 22 x 195

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

==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.& A219-01-03_.
- *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 on).
- *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 (A219-01-02_).
- Load(%) is percent of average output load.
Do not exceed derating in both average output power and current.
- *13. At 2.5A continuous output current condition.

Fig.A

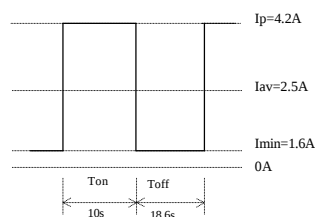


Fig.B

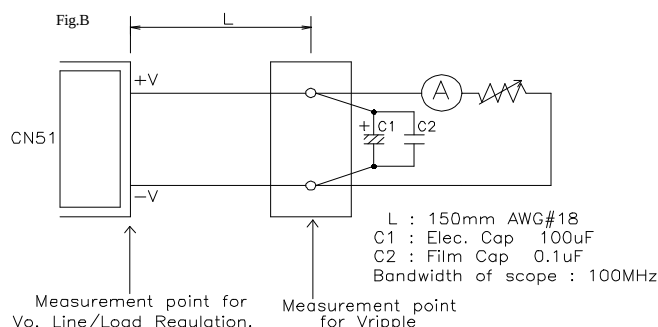
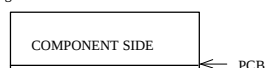


Fig.C

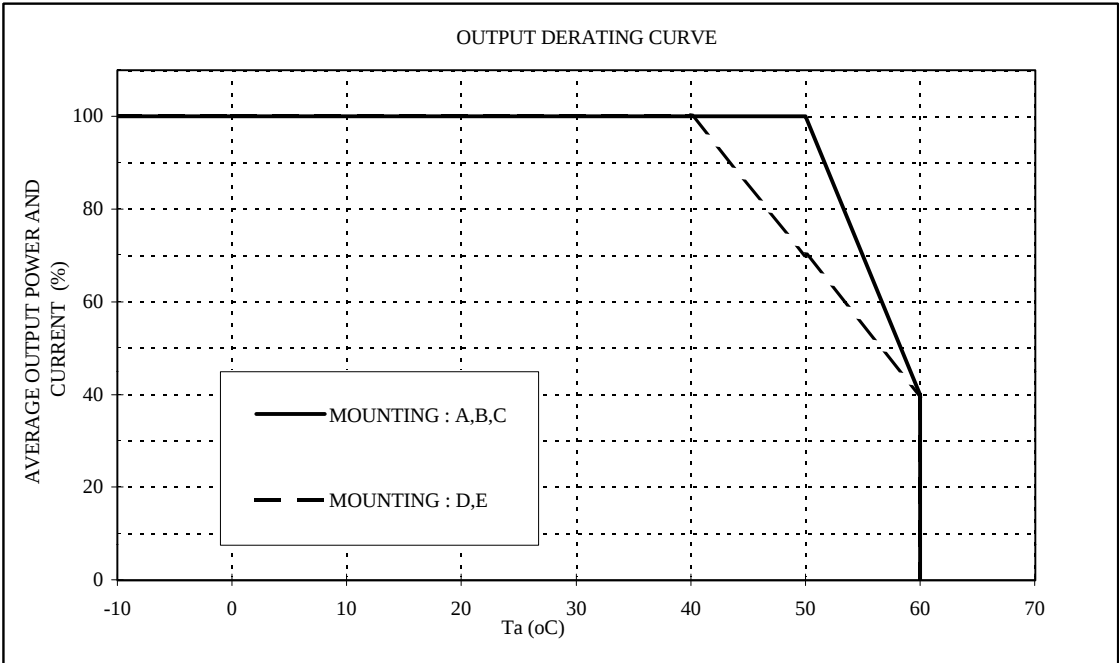


VS50P

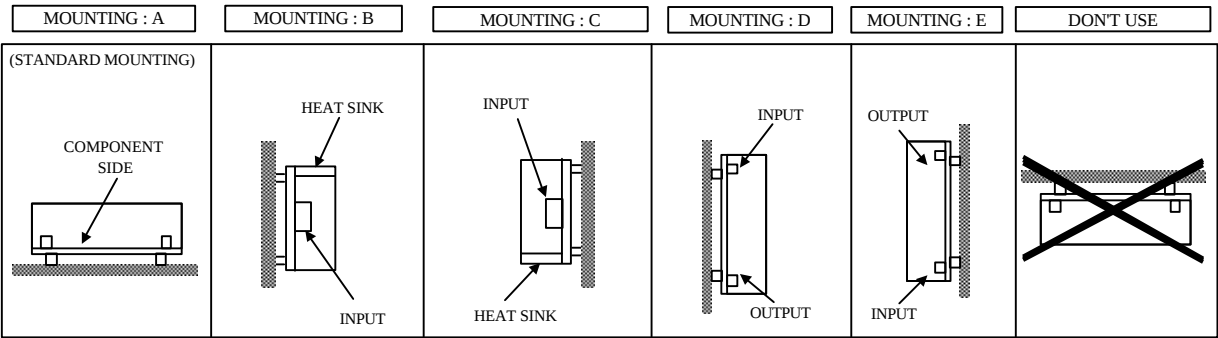
OUTPUT DERATING

A219-01-02-A

Ta (°C)	AVERAGE OUTPUT POWER AND CURRENT (%)	
	MOUNTING : A,B,C	MOUNTING : D,E
-10	100	100
0	100	100
25	100	100
40	100	100
50	100	70
60	40	40

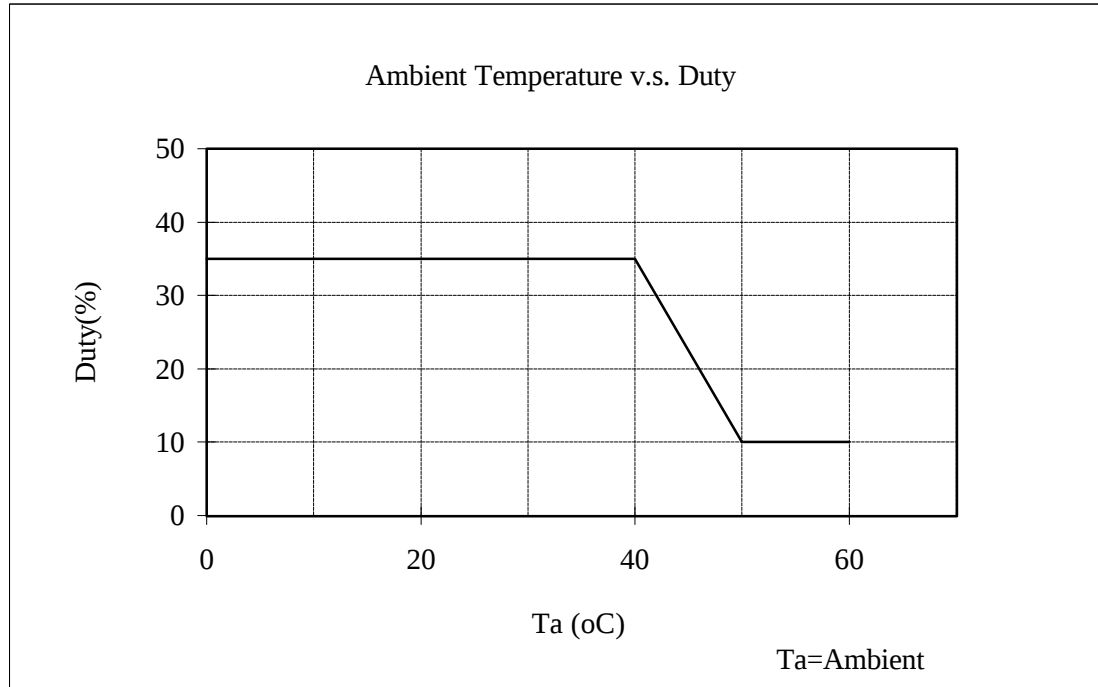


*PEAK OUTPUT CURRENT DOES NOT NEED DERATING.



VS50P**Peak Output Current Condition**

A219-01-03

**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.

