

**VS150E/PSE**

SPECIFICATIONS

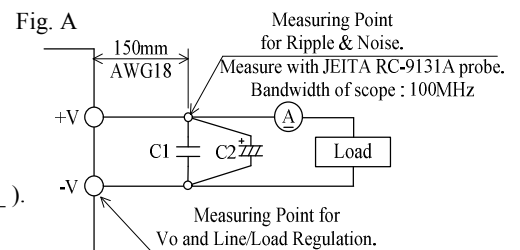
A242-01-01/PSE-B

ITEMS		MODEL	VS150E-12/PSE	VS150E-24/PSE
1	Nominal Output Voltage	V	12	24
2	Maximum Output Current	A	12.5	6.3
3	Maximum Output Power	W	150.0	151.2
4	Efficiency (Typ) (*1)	%	87	87
5	Input Voltage Range	-	90 - 110VAC (47 - 63Hz) or 110 - 175VDC	
6	Input Current (Typ) (*1)	A	3.2	
7	Inrush Current (Typ) (*1)	-	30A at Cold Start	
8	Output Voltage Range	V	10.8 - 13.2	21.6 - 26.4
9	Maximum Ripple & Noise (*2)(*3)	0≤Ta≤60°C	mV	150
		-10≤Ta<0°C	mV	180
10	Maximum Line Regulation (*2)(*4)	mV	48	96
11	Maximum Load Regulation (*2)(*5)	mV	96	150
12	Temperature Coefficient (*2)	-	Less than 0.02% / °C	
13	Over Current Protection (*6)	A	13.12 ≤	6.61 ≤
14	Over Voltage Protection (*7)	V	13.8 - 16.2	27.6 - 32.4
15	Hold-up Time (Typ) (*1)	-	20ms	
16	Leakage Current (*8)	-	Less than 0.5mA	
17	Parallel Operation	-	-	
18	Series Operation	-	Possible	
19	Operating Temperature (*9)	-	Convection : -10 to +60°C (-10 to +35°C:100%, +50°C:70%, +60°C:20%)	
20	Operating Humidity	-	30 to 90%RH (No Condensing)	
21	Storage Temperature	-	-30 to +85°C	
22	Storage Humidity	-	10 to 95%RH (No Condensing)	
23	Cooling	-	Convection Cooling	
24	Withstand Voltage	-	Input - FG : 2kVAC (10mA), Input - Output : 2kVAC (10mA) Output - FG : 500VAC (20mA) for 1min	
25	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC	
26	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s <sup>2</sup> Constant, X,Y,Z 1hour each.	
27	Shock	-	Less than 196.1m/s <sup>2</sup>	
28	Safety (*10)	-	Den-an (Appendix 8, Appendix 10)	
29	Conducted Emission	-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B	
30	Radiated Emission	-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B	
31	Immunity	-	Designed to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3), -5(Level 2,3), -6(Level 3), -8(Level 4), -11	
32	Weight (Typ)	g	780	
33	Size (W x H x D)	mm	87 x 47 x 202 ( Refer to Outline Drawing )	

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

=NOTES=

- \*1. At 100VAC, Ta=25°C, nominal output voltage and maximum output power.
- \*2. Please refer to Fig. A for measurement of line & load regulation and ripple voltage.
- \*3. For start up at low ambient temperature and low input voltage, output ripple noise might not meet specification. However, there is no overshoot at start up and output ripple noise specification can be met after one second.
- \*4. 85 - 132VAC, constant load.
- \*5. No load-Full load, constant input voltage.
- \*6. Constant current limit with automatic recovery.  
Avoid to operate at over load or short circuit condition for more than 30seconds.
- \*7. OVP circuit will shut the output down, manual reset (Re power on).
- \*8. Measured by the each measuring method of PSE (at 100VAC), Ta=25°C.
- \*9. Ratings
  - Derating at standard mounting. Refer to output derating curve(A242-01-02/PSE-\_ ).
  - Load (%) is percent of maximum output power or maximum output current, whichever is greater.
- \*10. As for PSE, at 100VAC.



C1 : Film Cap. 0.1 μF  
C2 : Elec. Cap. 100 μF

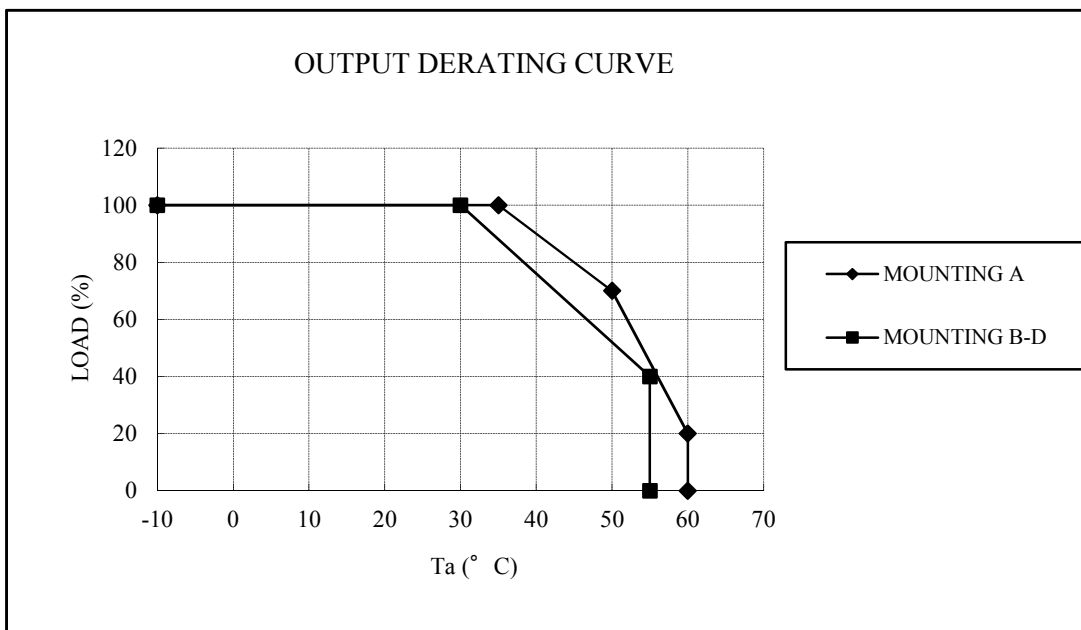
**VS150E/PSE**

OUTPUT DERATING

A242-01-02/PSE-A

\*COOLING : CONVECTION COOLING

Ta (°C)	LOAD (%)	LOAD (%)
	MOUNTING A	MOUNTING B-D
-10 to +30	100	100
35	100	-
50	70	-
55	-	40
60	20	-



MOUNTING A

MOUNTING B

MOUNTING C

MOUNTING D

DON'T USE

(STANDARD MOUNTING)

