EVS300W/R

SPECIFICATIONS

A269-01-01/R-A

	ITEMS / MODEL			EVS18-16R7/R	EVS36-8R4/R	EVS57-5R3/R
1	Nominal Output Voltage		V	18	36	57
2	Maximum Output Current		A	16.7	8.4	5.3
3	Maximum Output Power		W	300.6	302.4	302.1
4	Efficiency (Typ)	100VAC	%	86	88	87
	(*1)	200VAC	%	89	91	90
5	Input Voltage Range	(*2)(*3)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC		
6	Input Current (Typ)	(*1)	A	3.6/1.8		
7	Inrush Current (Typ)	(*1)(*4)	-	15A at 100VAC, 30A at 200VAC, Ta=25°C, Cold Start		
8	PFHC		-	Designed to meet IEC61000-3-2		
9	Power Factor (Typ)	(*1)	-	0.97/0.93		
10	Output Voltage Range		V	12 - 18	24 - 36	48 - 57
11	Maximum Ripple & Noise	0≤Ta≤70°C	mV	200	250	250
	(*5)	-20≤Ta<0°C	mV	250	300	400
12	Maximum Line Regulation	(*5)(*6)	mV	72	144	228
13	Maximum Load Regulation	(*5)(*7)	mV	144	252	285
14	Temperature Coefficient	(*5)	-	Less than 0.02% / °C		
15	Output Constant Current Limit Range	(*8)	A	8.35 - 16.70	4.20 - 8.40	2.65 - 5.30
16	Constant Current Setting accuracy		-	±10%		
17	Over Voltage Protection	(*9)	V	19.8 - 23.4	39.6 - 46.8	62.7 - 74.1
18	Hold-up Time (Typ)	(*1)	-	10ms(Typ) at 100VAC & Rated O/P Power		
19	Leakage Current	(*10)	-	Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC		
20	Remote Control	(*11)	-	Possible		
21	Parallel Operation		-	Possible		
22	Series Operation		-	Possible		
23	Operating Temperature	(*12)	-	-20 - +70°C (-20 - +45°C:100%, +50°C:88%, +60°C:64%, 70°C:40%)		
24	Operating Humidity		-	30 - 90%RH (No Condensing)		
25	Storage Temperature		-	-30 - +75°C		
26	Storage Humidity		-	10 - 90%RH (No Condensing)		
27	Cooling		-	Convection Cooling		
28	Withstand Voltage		-	Input - FG : 2kVAC (10mA), Input - Output : 3kVAC (10mA) Output - FG : 500VAC (20mA)		
29	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC		
30	Vibration		-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s^2 Constant, X,Y,Z 1hour each.		
31	Shock		-	Less than 196.1m/s^2		
32	Safety		-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020) Designed to meet Den-an Appendix 8 at 100VAC only.		
33	Conducted Emission	(*13)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B		
34	Radiated Emission	(*13)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B		
35	Immunity	(*13)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11		
36	Weight (Typ)		g	540		
37	Size (W x H x D)		mm	84 x 42 x 180 (Refer to Outline Drawing)		

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

=NOTES=

*1. At 100VAC/200VAC, Ta=25°C, nominal output voltage and maximum output power.

*2. For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC (50-60Hz).

*3. Output derating needed when input voltage less than 90VAC. Refer to LOAD vs. INPUT VOLTAGE (A269-01-02_).

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

*5. Please refer to Fig. A for measurement of Vo, line & load regulation and ripple voltage.

*6. 90 - 265VAC, constant load.

*7. No load-Full load, constant input voltage.

*8. Constant current limit with automatic recovery. Avoid to operate at short circuit condition.
Avoid to operate at constant current condition that output voltage is less than 50% of setting output voltage.
Avoid to adjust rotary switch(S1) when power supply is operating.

*9. OVP circuit will shut down output, manual reset (Re power on).

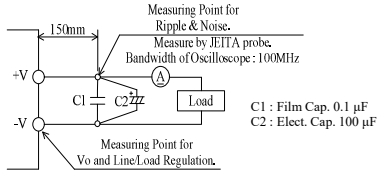
*10. Measured by the each measuring method of UL, CSA, EN and DENAN (at 60Hz), Ta=25°C.

*11. As for Remote control mode, refer to Fig. B.

*12. Output Derating
- Derating at standard mounting. Refer to LOAD vs. AMBIENT TEMPERATURE (A269-01-02_).
- When forced air cooling, refer to forced air cooling specifications (A269-01-03_).
- Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.

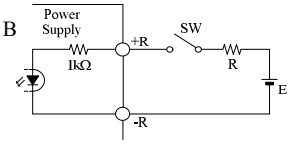
*13. The power supply is considered a component which will be installed into a final equipment.
The final equipment should be re-evaluated that it meets EMC directives.

Fig. A



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

Fig. B



The control mode is shown below.

+R & -R terminal condition	Output condition
SW ON (Higher than 4.5V)	ON
SW OFF (Lower than 0.5V)	OFF

External voltage level : E	External resistance : R
4.5 ~ 12.5VDC	No required
12.5 ~ 24.5VDC	1.5kΩ