

ALV60

SPECIFICATIONS

PA624-01-01A

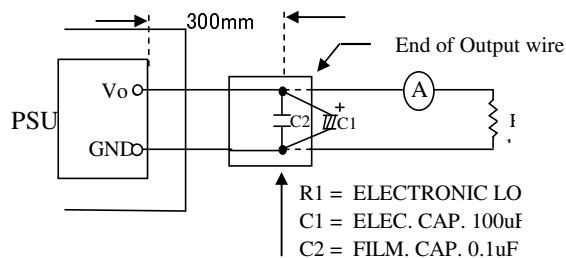
MODEL			ALV60-12-5R0	ALV60-24-2R5	ALV60-36-1R7
ITEMS					
1	Nominal Output Voltage	V	12	24	36
2	Minimum Output Current	A	0	0	0
3	Maximum Average Output Current	A	5	2.5	1.7
4	Maximum Average Output Power	W	60	60	61.2
5	Efficiency (Typ) ; 230VAC	(*1) %	85	88	87
6	Input Voltage Range	(*2) -	90 ~ 305 VAC (47Hz ~ 63 Hz)		
7	Input Current (TYP) ; 100VAC/200VAC	(*1) A	0.78 / 0.39		
8	Inrush Current (TYP)	A	25 @ 100 VAC, 50 @ 200VAC, Ta = 25 °C, COLD START		
9	Harmonic Current	-	Built to meet IEC61000-3-2 Class C (Load : 50% ~ 100%)		
10	Power Factor (100VAC/230VAC) (TYP)	(*1) -	0.98 / 0.93		
11	Output Voltage Accuracy	(*3) -	±3%		
12	Total Regulation	(*3) -	±3%		
13	Output Ripple & Noise	(*1, *3) mV	180	240	360
14	Over Current Protection	(*4, *7) W	>105% Rated Output Power		
15	Over Voltage Protection	(*5) -	>110%		
16	Turn On Time	mS	<1000		
17	Operating Temperature	(*9) °C	-30 ~ +70 (Refer to output derating curve)		
18	IP Class	-	IP66		
19	Opeating Humidity	%RH	15 ~ 90%RH (NO DEWDROP)		
20	Storage Temperature	°C	-30 ~ +85		
21	Storage Humidity	%RH	15 ~ 90%RH (NO DEWDROP)		
22	Cooling	-	CONVECTION COOLED		
23	Withstand Voltage	-	INPUT - OUTPUT ... 3KVAC, 1 min (20mA Max)		
24	Isolation Resistance	-	>100MΩ AT 25 °C AND 70%RH. INPUT - OUTPUT : 500 VDC		
25	Leakage Current	(*6) mA	<0.25		
26	Vibration	-	10 ~ 55HZ Amplitude less than 1.65mm p-p (max 19.6m/s ²), Sweep 1 min X,Y,Z 30mins each		
27	Shock (In Package)	-	LESS THAN 196.1m/s ²		
28	EMI (Conducted & Radiated Emission)	-	Built to meet EN55015-B ; EN55022-B ; VCCI-B ; CISPR 22-B ; FCC-B		
29	Immunity	-	Built to meet EN61000-4-2(Level 3), -3(Level 3), -4(Level 3), -5(Level 3), -6(Level 3), -8(Level 4), -11		
30	Safety Standard	-	UL8750; CSA C22.2 No.60950-1-07 2nd Ed. ;EN61347-1; EN61347-2-13; CE; DEN-AN 2		
31	Weight (Typ.)	g	380g		
32	Dimension (L x W x H)	mm	241 x 43 x 35 (Refer to Outline Drawing)		

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

NOTES :

- *1 : AT MAXIMUM AVERAGE OUTPUT POWER , $T_a = 25^{\circ}\text{C}$.
- *2 : FOR CASES WHERE CONFORMANCE TO VARIOUS SAFETY SPECS (UL,CSA,EN, DEN - AN 2) ARE REQUIRED, TO BE DESCRIBED AS 100-240VAC (100-277V FOR USA), 50/60HZ ON NAME PLATE.
- *3 : REFER TO FIG. A FOR MEASUREMENT DETERMINATION OF OUTPUT VOLTAGE REGULATION AND OUTPUT RIPPLE & NOISE VOLTAGE.
- *4 : CURRENT LIMITING WITH AUTOMATIC RECOVERY.
- *5 : OVP CIRCUIT WILL SHUTDOWN OUTPUT, MANUAL RESET (RE-POWER ON).
- *6 : AT 277VAC, 60Hz , $T_a = 25^{\circ}\text{C}$.
- *7 : AVOID OVER LOAD AND SHORT CIRCUIT CONDITION FOR MORE THAN 30 SEC.
- *8 : ALL PARAMETERS NOT SPECIFICALLY MENTIONED ARE MEASURED @ 230VAC INPUT,RATED LOAD AND $T_a = 25^{\circ}\text{C}$.
- *9 : FOR CASES WHERE CONFORMANCE TO UL SAFETY SPECS, OPERATING TEMPERATURE IS $-30 \sim +50^{\circ}\text{C}$.

FIGURE A MEASUREMENT SETUP



MEASUREMENT POINT FOR OUTPUT VOLTAGE
REGULATION AND RIPPLE & NOISE VOLTAGE
(20MHz BANDWIDTH OSCILLOSCOPE)

ALV60

SPECIFICATIONS

PA624-01-02

DERATING CURVE

***COOLING : CONVECTION COOLING**

Ta (°C)	LOAD (%)	STANDARD MOUNTING
-30 ~ +50	100	
70	70	

OUTPUT DERATING CURVE

