

ALP100

SPECIFICATIONS

PA606-01-01A

ITEMS		MODEL	ALP100-12	ALP100-24
1	Nominal Output Voltage	V	12	24
2	Minimum Output Current (*12)	A	0.1	0.1
3	Maximum Output Current	A	8.5	4.2
4	Maximum Output Power	W	102	100.8
5	Efficiency (Typ) (*1)	100VAC	82	84
		200VAC	85	87
6	Input Voltage Range	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC	
7	Input Current (100/200VAC)(Typ) (*1)	A	1.30/0.68	
8	Inrush Current(Typ) (*2)	-	14A at 100VAC, 28A at 200VAC, Ta=25°C, Cold Start	
9	PFHC	-	Built to meet IEC61000-3-2	
10	Power Factor (100/200VAC)(Typ) (*1)	-	0.98/0.90	
11	Output Voltage Accuracy During Shipment (*1)	V	12 ± 3%	24 ± 3%
12	Maximum Ripple & Noise (*3)	0 ≤ Ta ≤ 60°C	150	150
		-10 ≤ Ta < 0°C	180	180
13	Maximum Line Regulation (*4)	mV	48	96
14	Maximum Load Regulation (*5)	mV	300	300
15	Temperature Coefficient	-	Less than 0.02% / °C	
16	Over Current Protection (*6)	A	13.6 -	6.82 -
17	Over Voltage Protection (*7)	V	15.0-17.4	30.0-34.8
18	Hold-up Time (Typ) (*8)	-	20ms	
19	Leakage Current (*9)	-	Less than 0.5mA. 0.2mA(Typ) at 100VAC / 0.4mA(Typ) at 230VAC	
20	Remote Sensing	-	-	
21	Parallel Operation	-	-	
22	Series Operation	-	Possible	
23	Operating Temperature (*10)	-	-10°C - +60°C (-10 - +40°C:100%, 50°C:70%, 60°C:40%) Guarantee Start up at -30°C - -10°C	
24	Operating Humidity	-	30 - 90%RH (No dewdrop)	
25	Storage Temperature	-	-30 - +85°C	
26	Storage Humidity	-	10 - 95%RH (No dewdrop)	
27	Cooling	-	Convection Cooling	
28	Withstand Voltage	-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (100mA) for 1min	
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 (In package)	-	Less than 196.1m/s ²	
32	Safety (*11)	-	PSE, Built to meet UL60950-1, EN60950-1	
33	Line DIP	-	Built to meet SEMI-F47 (200VAC Line only)	
34	Conducted Emission	-	Built to meet EN55011/EN55022-B, FCC-B, VCCI-B	
35	Radiated Emission	-	Built to meet EN55011/EN55022-B, FCC-B, VCCI-B	
36	Immunity	-	Built to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3) -5(Level 3,4), -6(Level 3), -8(Level 4), -11	
37	Weight(Typ.)	g	1200	
38	Size (W x H x D)	mm	65 x 98 x 286.5 (Refer to Outline Drawing)	

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

=NOTES=

- *1. At 100/200VAC, Ta=25°C and maximum output power.
- *2. Not applicable for the in-rush current to Noise Filter for less than 0.2ms
- *3. Measure with JEITA RC-9131A probe, Bandwidth of scope :100MHz.
For measurement point, refer Figure A
- *4. 85 ~ 265VAC , constant load.
- *5. No load-Full load, constant input voltage.
- *6. Constant current limit and Hiccup with automatic recovery.
Not operate at over load or dead short condition for more than 30seconds
- *7. OVP circuit will shutdown output, manual reset (Re power on).
- *8. At 100/200VAC , nominal output voltage and maximum output current.
- *9. Measured by the each measuring method of PSE (at 100VAC).
- *10. Ratings - Derating at standard mounting.
 - Load (%) is percent of maximum output power or maximum output current, whichever is greater
 - As for other mountings, refer to derating curve (PA606-01-02_)
 - For conditions of start up at -30°C - -10°C, refer to derating curve (PA606-01-05_)
- *11. As for PSE, at 100VAC
- *12. Output voltage might be unstable when start up at -30°C - -10°C and no load. In that case, apply minimum output current

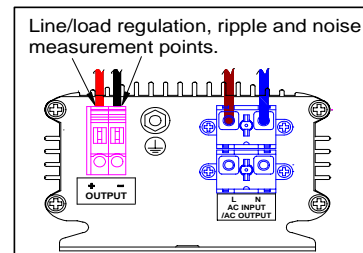


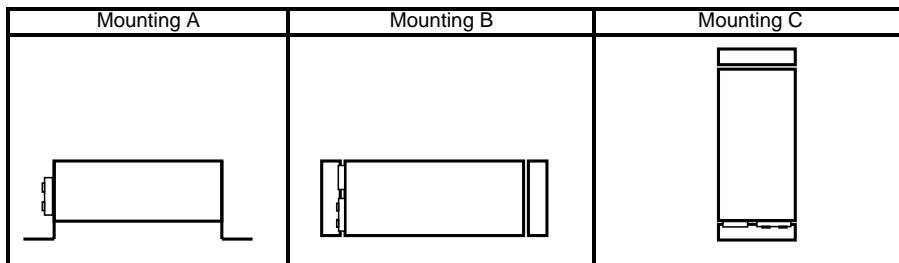
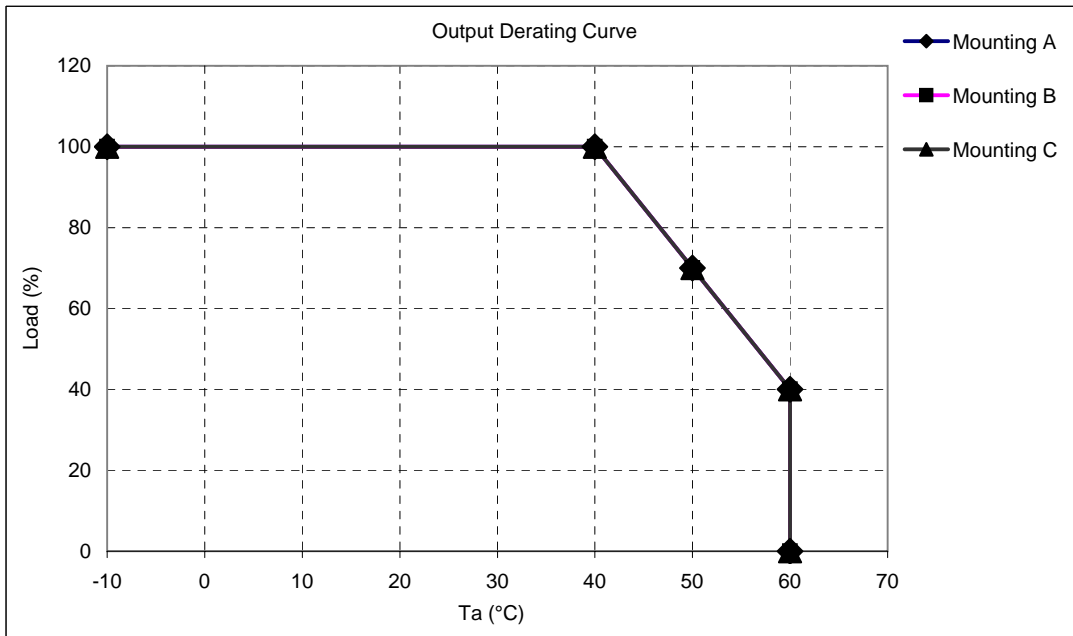
Figure A

ALP100

PA606-01-02A

OUTPUT DERATING

Ta (°C)	Load (%)		
	Mounting A	Mounting B	Mounting C
-10	100	100	100
40	100	100	100
50	70	70	70
60	40	40	40

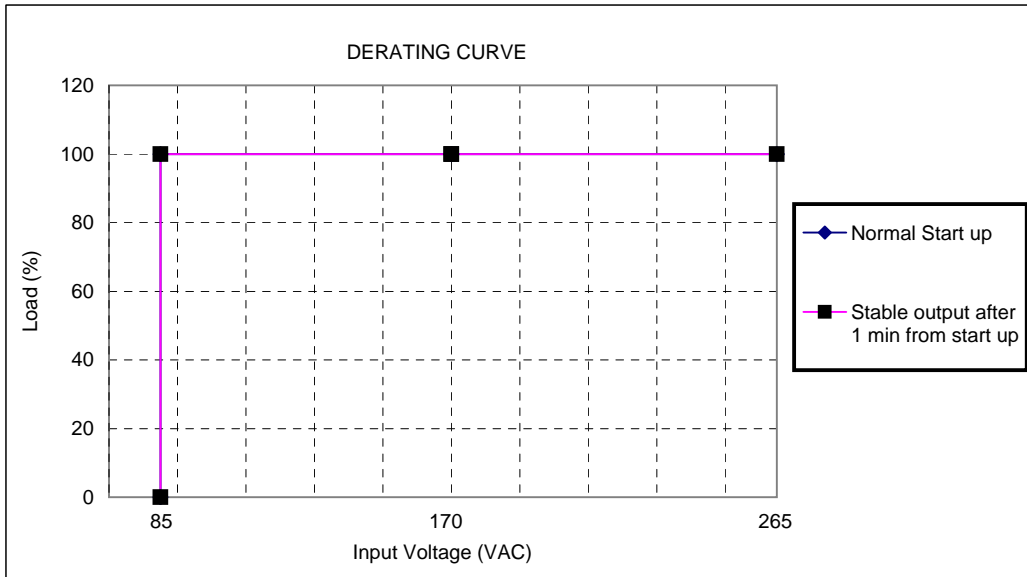


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PA606-01-05

DERATING TO START UP AT Ta : -30°C - -10°C

Input Voltage (VAC)	Load (%)	
	Normal start up	Stable output after 1 min from start up
85 - 265	100	100



= NOTES=

*At Ta : -30°C - -10°C

*Output voltage : Nominal output voltage.

*Input voltage : Not gradual start up.

*Do not use the load that is constant current mode.

*Avoid forced air cooling. It is assumed that inside of power supply is heated by self heating within 1 minute.

*No dewdrop.

*Output voltage might be unstable at no load. In that case, apply minimum output current.

*Pay attention to above items before using the unit. Incorrect usage could lead to unstable output voltage.