

ZWX180/L1

SPECIFICATIONS(1/2)

A234-01-01/L1-A

(This specifications sheet also apply to other option model /L2.)

MODEL			ZWX180/L1				
ITEMS			V1	V2	V3	V4	V5 (5V SB)
1	Nominal Output Voltage	V	+3.3	+5	+12	-12	+5
2	Minimum Output Current	A	0	0	0	0	0
3	Maximum Output Current (Convection)	A	6.0	5.0	6.0	0.2	1.4
4	Maximum Output Power Each CH (Convection)	W	19.8	25.0	72.0	2.4	7.0
			Combined 32W				
5	Total Output Power (Convection)	W	90				
6	Maximum Output Current (Forced Air)	A	8.4	7.0	9.0	0.3	2.0
7	Maximum Output Power Each CH (Forced Air)	W	27.7	35.0	108.0	3.6	10.0
			Combined 54W				
8	Total Output Power (Forced Air)	W	153				
9	Peak Output Current (*1)	A	12.0	10.0	13.0	0.3	2.0
10	Peak Output Power Each CH (*1)	W	39.6	50.0	156.0	3.6	10.0
			Combined 63W				
11	Total Peak Output Power (*1)	W	180				
12	Efficiency (100/200VAC)(Typ) (*2)	-	81%/84%				
13	Input Voltage Range (*4)	-	85-265VAC (47-63Hz)				
14	Input Current (100/200VAC) (Typ) (*2)	-	1.9A/1.0A				
15	Inrush Current (100/200VAC) (Typ) (*5)	-	14A/28A at Cold Start (Ta=25)				
16	PFHC	-	Designed to meet IEC61000-3-2				
17	Power Factor (100/200VAC)(Typ) (*2)	-	0.99/0.93				
18	Output Voltage Accuracy	%	±5	±5	±5	±5	±5
19	Output Voltage Range	-	Fixed	Fixed	Fixed	Fixed	Fixed
20	Maximum Ripple & Noise (*3,*6)	-10≤Ta<0°C 0≤Ta≤50°C	mV	160 120	180 150	180 150	160 120
21	Maximum Line Regulation (*3,*6,*7)	mV	20	48	48	20	20
22	Maximum Load Regulation (*3,*6,*8)	mV	100	300	300	100	100
23	Over Current Protection (*9)	A	8.82-	7.35-	9.45-	0.32-	2.1-
24	Over Voltage Protection (*10)	-	V1 : 114%-130%(3.76-4.3V), V2 : 115%-140%(5.74-7V) V3 : 112%-130%(13.4-15.6V)				
25	Hold-up Time (Typ) (*2)	-	20ms at 100VAC				
26	Leakage Current (*3,*11)	-	Less than 0.75mA				
27	Remote Sensing		Possible (V1 only)				
28	ON/OFF Control (PS_ON)	-	TTL compatible (H : Output Inhibit, L : Output Enable) : Designed to meet ATX standard.				
29	Series / Parallel Operation	-	-				
30	Operating Temperature (*12)	-	-10 - +50°C : 100%, 60°C : 60%, 70°C : 20%				
31	Operating Humidity	-	30 - 90%RH (No Dewdrop)				
32	Storage Temperature	-	-30 - +85°C				
33	Storage Humidity	-	10 - 95%RH (No Dewdrop)				
34	Cooling (*12)	-	Convection Cooling / Forced air Cooling (System air Cooling) : 0.85 m ³ /min				
35	Withstand Voltage	-	Input-FG : 2kVAC(20mA), Input-Output : 3kVAC(20mA) Output-FG : 500VAC(100mA) for 1min.				
36	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output-FG : 500VDC				
37	Vibration	-	At no operating 10 - 55Hz(Sweep for 1min) 19.6 m/s ² Constant, X,Y,Z 1hour each.				
38	Shock	-	Less than 392 m/s ² at no operating.				
39	Safety	-	Approved by UL60950-1, CSA60950-1, EN60950-1, EN50178(OV II), Designed to meet DENAN (Section 2) at 100VAC only.				
40	Conducted Emission (*3)	-	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-B				
41	Radiated Emission (*3)	-	Designed to meet EN55011/EN55022-B, FCC-ClassB, VCCI-B				

ZWX180/L1

SPECIFICATIONS(2/2)

A234-01-02/L1

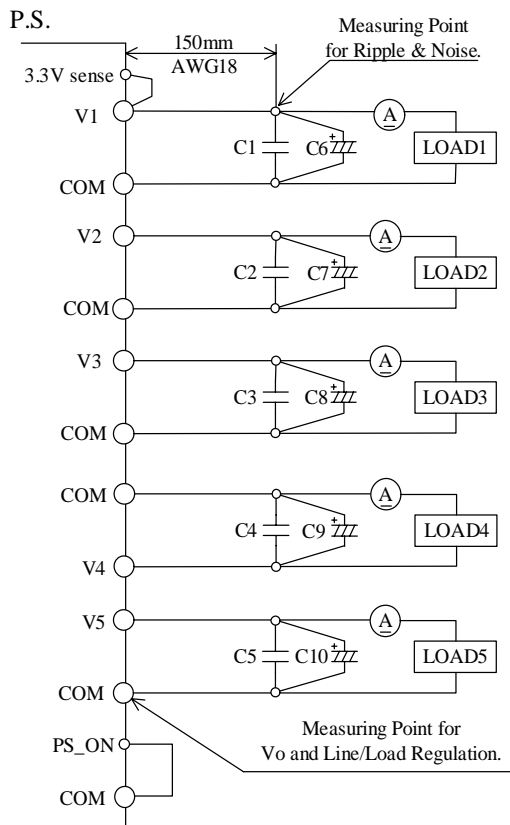
(This specifications sheet also apply to other option model /L2.)

MODEL		ZWX180/L1					
		V1	V2	V3	V4	V5 (5V SB)	
42	Immunity	-	Designed to meet IEC61000-4-2, -3, -4, -5, -6, -8, -11				
43	Weight (Typ.)	g	700				
44	Size (W x H x D)	mm	98 x 45.5 x 240 (Refer to Outline Drawing)				

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

=NOTE=

- *1. Operating time at peak output is less than 5sec.
(Average output power and current are less than Maximum output power and current.)
- *2. At total output power (Forced air) (V1=6.5A, V2=6.5A, V3=7.7A, V4=0.2A, V5=1.0A), Ta=25°C.
- *3. At total output power (Forced air).
- *4. For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC (50/60Hz).
- *5. Not applicable for the inrush current to Noise Filter for less than 0.2ms.
- *6. Please refer to Fig. A for measurement of line & load regulation and ripple voltage.
- *7. 85 - 265VAC , constant load.
- *8. No load-Full load, constant input voltage.
- *9. Avoid to operate at overload or short circuit condition for more than 30 seconds.
V1,V2 and V3
: OCP circuit will shut down output except V5 with delay (more than 5s), manual reset (PS_ON reset or re power on.).
V4 : Constant current limit with automatic recovery.
V5 : Constant current limit in conjunction with all output with automatic recovery.
- *10. OVP circuit will shut down output, manual reset (PS_ON reset or re power on.).
- *11. Measured by the each measuring method of UL, CSA, EN and DENAN (at 60Hz), Ta=25°C.
- *12. At forced air cooling, standard mounting. Refer to output derating curve.(A234-01-03_, A234-01-04_)



Measure with EIAJ RC-9131 probe.
Bandwidth of scope : 100MHz

	Capacitance
C1,C2,C3,C4,C5 : Film Cap.	0.1 μ F
C6,C7,C8,C9,C10 : Elec. Cap.	100 μ F

Fig.A