ZWS50BAF/FV

SPECIFICATIONS

A247-01-01/FV-B

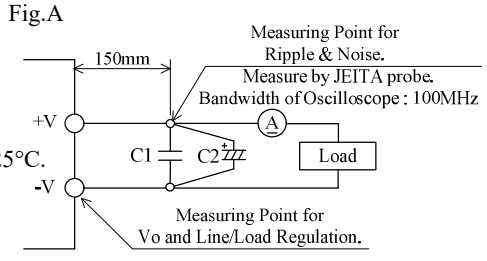
	ITEMS / MODEL			ZWS50BAF-12/FV	ZWS50BAF-24/FV	ZWS50BAF-48/FV
1	Nominal Output Voltage		V	12	24	48
2	Maximum Output Current		A	4.3	2.1	1.1
3	Maximum Output Power		W	51.6	50.4	52.8
4	Efficiency (Typ) (*1)	100VAC	%	83	84	84
		200VAC	%	85	87	86
5	Input Voltage Range (*2)		-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC		
6	Input Current (Typ) (*1)		A	0.65/0.35		
7	Inrush Current (Typ) (*1)(*3)		-	14A at 100VAC, 28A at 200VAC, Ta=25°C, Cold Start		
8	PFHC		-	Designed to meet IEC61000-3-2		
9	Power Factor (Typ) (*1)		-	0.97/0.91		
10	Output Voltage Range		-	Fixed		
11	Output Voltage Accuracy		V	11.5 - 12.5	23.0 - 25.0	46.0 - 50.0
12	Maximum Ripple & Noise (*4)	0≤Ta≤70°C	mV	150	150	200
		-10≤Ta<0°C	mV	180	180	240
13	Maximum Line Regulation (*4)(*5)		mV	48	96	192
14	Maximum Load Regulation (*4)(*6)		mV	96	150	240
15	Temperature Coefficient (*4)		-	Less than 0.02% / °C		
16	Over Current Protection (*7)		A	4.51 -	2.20 -	1.15 -
17	Over Voltage Protection (*8)		V	13.8 - 16.2	27.6 - 32.4	55.2 - 64.8
18	Hold-up Time (Typ) (*1)		-	20ms		
19	Leakage Current (*9)		-	Less than 0.5mA. 0.2mA(Typ) at 100VAC / 0.4mA(Typ) at 230VAC		
20	Parallel Operation		-	-		
21	Series Operation		-	Possible		
22	Operating Temperature (*10)		-	Convection : -10 to +70°C (-10 to +50°C:100%, +60°C:75%, +70°C:50%)		
23	Operating Humidity		-	30 to 90%RH (No Condensing)		
24	Storage Temperature		-	-30 to +75°C		
25	Storage Humidity		-	10 to 90%RH (No Condensing)		
26	Cooling		-	Convection Cooling		
27	Withstand Voltage		-	Input - FG : 2kVAC (10mA), Input - Output : 3kVAC (10mA) Output - FG : 500VAC (20mA) for 1min		
28	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC		
29	Vibration		-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s^2 Constant, X,Y,Z 1hour each.		
30	Shock		-	Less than 196.1m/s^2		
31	Safety		-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020), EN50178(OV II) Designed to meet DENAN at 100VAC Only.		
32	Conducted Emission		-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B		
33	Radiated Emission		-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B		
34	Immunity		-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11		
35	Weight (Typ)		g	165		
36	Size (W x H x D)		mm	50 x 26 x 132 (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. Not applicable for inrush current to a noise filter for less than 0.2ms.
*4. Please refer to Fig. A for measurement of Vo, line & load regulation and ripple voltage.
*5. 85 - 265VAC, constant load.
*6. No load-Full load, constant input voltage.
*7. Hiccup with automatic recovery.
Avoid to operate at over load or short circuit condition for more than 30seconds.
*8. OVP circuit shut down the output, manual reset (Re power on) to get output voltage.
*9. Measured by the each measuring method of UL, CSA, EN and DENAN(at 60Hz), Ta=25°C.
*10. Output Derating
- Derating at standard mounting. Refer to output derating curve(A247-01-02_).
- About a force air cooling, refer to output derating curve (A247-01-03_).
- Load (%) is percent of maximum output power or maximum output current, whichever is greater.

Fig.A



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