ZWS100BAF

SPECIFICATIONS

A249-01-01A

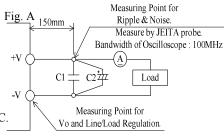
$\overline{}$	A247-01-01A	MODEL								
		MODEL				ZWS100BAF				
	ITEMS			-3	-5	-12	-15	-24	-48	
1	Nominal Output Voltage		V	3.3	5	12	15	24	48	
2	Maximum Output Current		A	20	20	8.5	6.7	4.3	2.1	
3	Maximum Output Power		W	66.0	100.0	102.0	100.5	103.2	100.8	
4	Efficiency (Typ) (*1)	100VAC	%	82	84	86	86	87	88	
		200VAC	%	84	86	88	88	89	90	
5	5 Input Voltage Range (*2)			85 - 265VAC (47 - 63Hz) or 120 - 370VDC						
6	Input Current (Typ)	(*1)	Α	0.9/0.45 1.3/0.65						
7	Inrush Current (Typ)	(*1)(*3)	ı	14A at 100VAC, 28A at 200VAC, Ta=25°C, Cold Start						
8	PFHC									
9	Power Factor (Typ) (*1) - 0				0.96/0.89 0.98/0.93					
10	Output Voltage Range		V	2.97 - 3.63	4.5 - 5.5	10.8 - 13.2	13.5 - 16.5	21.6 - 26.4	39.5 - 52.8	
11	Maximum Ripple & Noise	0≤Ta≤70°C	mV	120	120	150	150	150	200	
		-10 <u>≤</u> Ta<0°C	mV	160	160	180	180	180	240	
12	Maximum Line Regulation	(*4)(*5)	mV	20	20	48	60	96	192	
13	Maximum Load Regulation	(*4)(*6)	mV	40	40	96	120	150	240	
14	Temperature Coefficient	(*4)	ı			Less than				
15	Over Current Protection	(*7)	Α	21.0 -	21.0 -	8.93 -	7.04 -	4.52 -	2.21 -	
16	Over Voltage Protection	(*8)	V	3.79 - 4.95	5.75 - 7.00	13.8 - 16.2	17.3 - 20.3	27.6 - 32.4	55.2 - 64.8	
17	Hold-up Time (Typ)	(*1)	-			20	ms			
18	Leakage Current	(*9)	-	Less than 0.5mA. 0.2mA(Typ) at 100VAC / 0.4mA(Typ) at 230VAC						
19	Remote Control		-	Option						
20	Parallel Operation		-	-						
21	Series Operation									
22	Operating Temperature	(*10)	-	Convection: -10 - +70°C (-10 - +50°C:100%, +60°C:75%, +70°C:50%)						
23	Operating Humidity		-	30 - 90%RH (No Condensing)						
24	Storage Temperature		-	-30 - +75°C						
25	Storage Humidity		ı	10 - 90%RH (No Condensing)						
26	Cooling		-	Convection Cooling						
27	Withstand Voltage - Input - FG : 2kVAC (10mA), Input - Output : 3kVAC (10mA)				nA)					
				Output - FG : 500VAC (20mA) for 1min						
28	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - FG: 500VDC						
29				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		-	Approv	ed by UL6095	0-1, CSA6095	0-1, EN60950	0-1, EN50178	(OV II),	
					Designe	d to meet DE	NAN at 100V	AC only.		
32	Conducted Emission		ı	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B						
33	Radiated Emission									
34	Immunity		-			C61000-6-2				
35	Weight (Typ)		g				90			
36	Size (W x H x D)		mm		62 x 33	x 155 (Refer	to Outline Dr	rawing)		
_			_		_		_		_	

*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 the in-rush current to 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. 3.3, 5V model: Constant current limit and hiccup with automatic recovery.
 - 12 48V model: Constant current limit with automatic recovery.

Avoid to operate at over load or short circuit condition for more than 30seconds.

- *8. OVP circuit will shut down output, manual reset (Re power on).
- *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(A249-01-02_).
 - When forced air cooling, refer to output derating curve(A249-01-03_).
 - Load (%) is percent of maximum output power or maximum output current, whichever is greater.



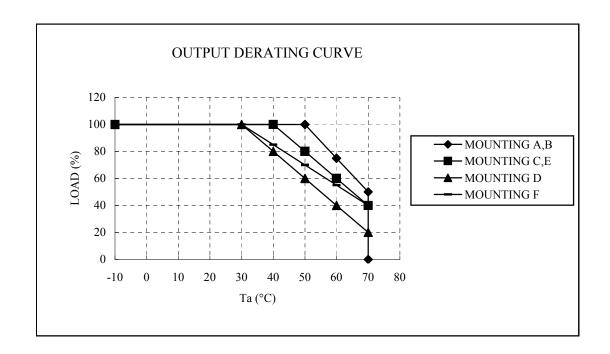
C1 : Film Cap. 0.1 μF C2 : Elect. Cap. 100 μF

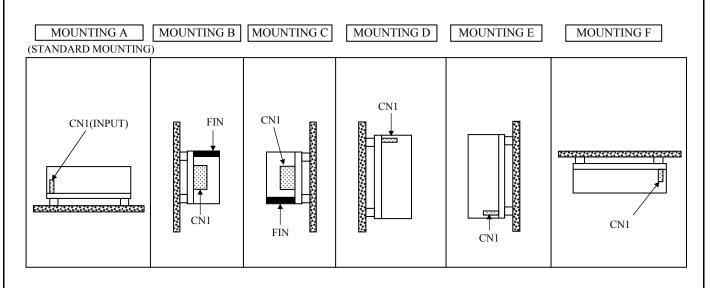
OUTPUT DERATING

A249-01-02

*COOLING: CONVECTION COOLING

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	LOAD (%)	LOAD (%)	LOAD (%)	LOAD (%)					
Ta (°C)	MOUNTING A,B	MOUNTING C,E	MOUNTING D	MOUNTING F					
-10 - +30	100	100	100	100					
40	100	100	80	85					
50	100	80	60	70					
60	75	60	40	55					
70	50	40	20	40					





OUTPUT DERATING

A249-01-03

*COOLING: FORCED AIR COOLING

	LOAD (%)		
Ta (°C)	MOUNTING A-F		
-10 - +60	100		
70	70		

Air velocity ≥ 0.7 m/s: Air must flow through component side.

