ZWS300BAF/TA

SPECIFICATIONS

A254-01-01/TA-B

	1123 01 011 111 12	MODEL		ZWS300BAF	ZWS300BAF	ZWS300BAF	ZWS300BAF	ZWS300BAF	
	ITEMS			-12/TA	-15/TA	-24/TA	-36/TA	-48/TA	
1	Nominal Output Voltage		V	12	15	24	36	48	
2	Maximum Output Current		A	25.0	20.0	12.5	8.4	6.3	
3	Maximum Output Power		W	300.0	300.0	300.0	302.4	302.4	
4	Efficiency (Typ)	100VAC	%	86		88			
-	(*1) 200VAC %			89		91			
5	Input Voltage Range	(*2)(*3)	-		85 - 265VAC (47 - 63Hz) or 120 - 370V				
6	Input Current (Typ)	(*1)	Α	3.7	/1.9	3.6/1.8			
7	Inrush Current (Typ)	(*1)(*4)	-	15A at 100VAC, 30A at 200VAC, Ta=25°C, Cold Start					
8	PFHC		-	Designed to meet IEC61000-3-2					
9	Power Factor (Typ)	(*1)	-	0.97/0.93					
10	Output Voltage Range	, , ,	V	9.6 - 13.2	13.5 - 16.5	21.6 - 27.5	32.4 - 39.6	39.5 - 52.8	
11	Maximum Ripple & Noise	0 <u>≤</u> Ta <u>≤</u> 70°C	mV	150	150	150	250	250	
) -10 <u>≤</u> Ta<0°C	mV	180	180	180	300	300	
12	Maximum Line Regulation	(*5)(*6)	mV	48	60	96	144	192	
13	Maximum Load Regulation		mV	100	120	150	240	240	
14	Temperature Coefficient	(*5)	-	Less than 0.02% / °C					
15	Over Current Protection	(*8)	A	26.25 -	23.1-	14.7 -	9.87 -	7.35 -	
16	Over Voltage Protection	(*9)	V	13.8 - 16.2	17.3 - 20.3	28.8 - 33.6	41.4 - 48.6	55.2 - 64.8	
17	Hold-up Time (Typ)	(*1)	-	18ms(typ) at 100VAC & Rated O/P Power, 20ms(typ) at 100VAC & 80% Load					
18	Leakage Current	(*10)	-	Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC					
19	Parallel Operation		-	-					
20	Series Operation		-	Possible					
21	Operating Temperature		-	-10 - +60°C -10 - +60°C					
				`	0%, +30°C:85%,	,	(-10 - +30°C:100%, +40°C:80%,		
		(*11)		+40°C:70%, +50°C:55%, +60°C:40%) +50°C:60%, +60°C:40%)					
22	Operating Humidity		-	30 - 90%RH (No Condensing)					
23	Storage Temperature		-	-30 - +75°C					
24	Storage Humidity		-	10 - 90%RH (No Condensing)					
25	Cooling		-	Convection Cooling					
26	Withstand Voltage		-	Input - FG: 2kVAC (10mA), Input - Output: 3kVAC (10mA)					
27	T. 1 d. D. d.			Output - FG : 500VAC (20mA) for 1min					
27	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - FG: 500VDC					
28	Vibration		-	At no operating, 10 - 55Hz (Sweep for 1min)					
20	Chaola			19.6m/s ² Constant, X,Y,Z 1hour each.					
29 30	Shock		-	Less than 196.1m/s ² Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1,					
30									
				EN60950-1 (Expire date of 60950-1 : 20/12/2020), EN50178(OV II) Designed to meet DENAN at 100VAC only.					
31	Conducted Emission		_	Designed to meet DENAN at 100 VAC only. Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
32	Radiated Emission		-	Designed to meet EN53011/EN53032-B, FCC-B, VCCI-B Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
33	Immunity			Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11					
34	Weight (Typ)		g	800					
	Size (W x H x D)		mm	95 x 53 x 212 (Refer to Outline Drawing)					
	Read instruction manual carefully, before using the power supply unit								

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=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. Output derating needed when input voltage less than 90VAC.

 Fig. A

Refer to LOAD vs. INPUT VOLTAGE (24V/36V/48V: A254-01-02/A-_, 12V/15V: A254-01-06/A-_).

- *4. Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- *5. Please refer to Fig. A for measurement of Vo, line & load regulation and ripple voltage.
- *6. 90 265VAC, constant load.
- *7. No load-Full load, constant input voltage.
- *8. Constant current limit with automatic recovery.

 Avoid to operate at over load or short circuit condition.
- *9. OVP circuit will shut down output, manual reset (Re power on).
- *10. Measured by the each measuring method of UL, CSA, EN and DENAN (at 60Hz), Ta=25°C.

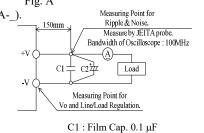
*11. Output Derating

- Derating at standard mounting.

Refer to LOAD vs. AMBIENT TEMPERATURE (24V/36V/48V: A254-01-02/A-_, 12V/15V: A254-01-06/A-_).

- When forced air cooling, refer to forced air cooling specifications (A254-01-03/A-_, 24V/36V/48V: A254-01-04/A-_, 12V/15V: A254-01-08/A-_).

- Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.



C2: Elect. Cap. 100 μF