SPECIFICATIONS

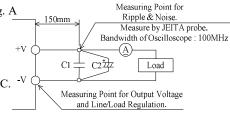
A243-01-01/CO2-B

N		MODEL		ZWS50B	ZWS50B	ZWS50B	ZWS50B	ZWS50B	ZWS50B
	ITEMS			-3/CO2	-5/CO2	-12/CO2	-15/CO2	-24/CO2	-48/CO2
1	Nominal Output Voltage		V	3.3	5	12	15	24	48
2	Maximum Output Current		Α	10	10	4.3	3.5	2.1	1.1
3	Maximum Output Power		W	33.0	50.0	51.6	52.5	50.4	52.8
4	ì	100VAC	%	82	83	83	84	85	86
	Efficiency (Typ.) (*1)	200VAC	%	84	86	86	87	87	88
5	Input Voltage Range (*2)			85 - 265VAC (47 - 63Hz) or 120 - 370VDC					
6	Input Current (Typ.)	(*1)	A	0.8/0.5					
7	Inrush Current (Typ.)	(*1)(*3)	-	14A at 100VAC, 28A at 200VAC, Ta=25°C, Cold Start					
8	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
9	Maximum Ripple & Noise	0≤Ta≤70°C	mV	120	120	150	150	150	200
	(*4)(*5)		mV	160	160	180	180	180	240
10	Maximum Line Regulation	(*4)(*6)	mV	20	20	48	60	96	192
11	Maximum Load Regulation	(*4)(*7)	mV	40	40	96	120	150	240
12	Temperature Coefficient	(*4)	-	Less than 0.02% / °C					
13	Over Current Protection	(*8)	A	10.5 -	10.5 -	4.51 -	3.67 -	2.20 -	1.15 -
14	Over Voltage Protection	(*9)	V	3.79 - 4.95	5.75 - 7.0	13.8 - 16.2		27.6 - 32.4	55.2 - 64.8
15	Hold-up Time (Typ.)	(*1)	-	15ms(Typ) at 100% Load / 20ms(Typ) at 70% Load					
16	Leakage Current	(*10)	-	Less than 0.5mA. 0.2mA(Typ) at 100VAC / 0.4mA(Typ) at 230VAC					
17	Remote Control		-	-					
18	Parallel Operation		-	-					
19	Series Operation		-	Possible					
20	Operating Temperature	(*11)	-	Convection: -10 to +70°C (-10 to +50°C:100%, +60°C:75%, +70°C:50%)					
21	Operating Humidity		-	30 to 90%RH (No Condensing)					
22	Storage Temperature		-	-30 to +75°C					
23	Storage Humidity		-	10 to 90%RH (No Condensing)					
24	Cooling		-	Convection Cooling					
25	Withstand Voltage		1	Input - FG: 2kVAC (10mA), Input - Output: 3kVAC (10mA)					
23			-	Output - FG: 500VAC (20mA) for 1min					
26	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - FG: 500VDC					
27	Vibration		-	At no operating, 10 to 55Hz (Sweep for 1min)					
			_	19.6m/s ² Constant, X,Y,Z 1hour each.					
28	Shock		-	Less than 196.1m/s ²					
29	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.					
30	Conducted Emission		-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
31	Radiated Emission		-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
32	Immunity		-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11					
33	Weight (Typ.)		g	165					
34	Size (W x H x D)	mm	50 x 26 x 132 (Refer to Outline Drawing)						
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*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 output voltage, line & load regulation and ripple voltage.
- *5. For start up at low ambient temperature and low input voltage, output ripple noise might not meet specification. However, specification can be met after one second.
- *6. 85 265VAC, constant load.
- *7. No load-Full load, constant input voltage.
- *8. Hiccup with automatic recovery.
 - Avoid to operate at over load or short circuit condition for more than 30seconds.
- *9. OVP circuit shut down the output, manual reset (Re power on) to get output voltage.
- *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 output derating curve (A243-01-02_).
 - About a force air cooling, refer to output derating curve (A243-01-03_).
 - 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