SPECIFICATIONS

CA797-01-01/CO2-A

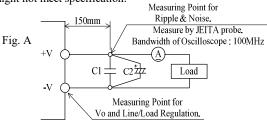
CA/9/-01-01/CO2-A			ZILIG20D	ZWZZAD	ZWZCZOD	ZWZZAD	ZILIG20D
MODEL			ZWS30B	ZWS30B	ZWS30B	ZWS30B	ZWS30B
ITEMS			-3/CO2	-5/CO2	-12/CO2	-15/CO2	-24/CO2
1	Nominal Output Voltage	V	3.3	5	12	15	24
2	Maximum Output Current	Α	6.0	6.0	2.5	2.0	1.3
3	Maximum Output Power	W	19.8	30.0	30.0	30.0	31.2
4	Efficiency (Typ) (*1) 100VAC	%	75	80	84	85	86
	200VAC	%	77	82	86	87	88
5	Input Voltage Range (*2)(*12)	-	85 - 265VAC (47-63Hz) or 120 - 370VDC				
6	Input Current (Typ) (*1)	Α	0.5 / 0.3				
7	Inrush Current (Typ) (*1)(*3)	-	15A at 100VAC, 30A 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
9	Maximum 0≤Ta≤70°C, 35-100% Load		120	120	150	150	150
	Ripple & -10 <u><</u> Ta<0°C, 35-100% Load		160	160	180	180	180
	Noise (*4)(*5) -10 <ta<70°c, 0-35%="" load<="" td=""><td>mV</td><td>200</td><td>200</td><td>240</td><td>240</td><td>240</td></ta<70°c,>	mV	200	200	240	240	240
10	Maximum Line Regulation (*4)(*6)	mV	20	20	48	60	96
11	Maximum Load Regulation (*4)(*7)	mV	40	40	96	120	150
12	No Load Power Consumption	-	Typical 0.2W at 100VAC/200VAC, 0.5W Max.				
13	Temperature Coefficient (*4)	-	Less than 0.02% / °C				
14	Over Current Protection (*8)	A	6.30 -	6.30 -	2.63 -	2.10 -	1.37 -
15	Over Voltage Protection (*9)	V	4.00 - 5.25	5.75 - 7.00	13.8 - 16.2	17.3 - 20.3	27.6 - 32.4
16	Hold-up Time (Typ) (*1)	-	20ms				
17	Leakage Current (*10)	-	0.15/0.30mA Max. (100VAC / 230VAC 60Hz)				
18	Remote Control	-	-				
19	Parallel Operation	-	-				
20	Series Operation	-	Possible				
21	Operating Temperature (*11)	-	Convection: -10 to +70°C (-10 to +50°C:100%, +60°C:70%, +70°C:20%)				
22	Operating Humidity	-	30 to 90%RH (No Condensing)				
23	Storage Temperature	-	-30 to +75°C				
24	Storage Humidity	-	10 to 95%RH (No Condensing)				
25	Cooling	-	Convection Cooling				
26	Withstand Voltage	-	Input - FG : 2kVAC (10mA), Input - Output : 3kVAC (10mA)				
			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 to 55Hz (Sweep for 1min)				
			19.6m/s ² Constant, X,Y,Z 1hour each.				
29	Shock	-	Less than 196.1m/s ²				
30	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.				
31	Conducted Emission	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
32	Radiated Emission	-	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	105				
	Size (W x H x D)	mm	50 x 26 x 105 (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).
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 m *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. 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. Current limiting (hiccup) with automatic recovery.

 Avoid to operate at over load or short circuit condition for more than 30seconds.
- *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 Deratings
 - Derating at standard mounting. Refer to output derating curve (CA797-01-02).
 - When forced air cooling, refer to derating curve (CA797-01-02).
 - Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.
- *12. Output Derating needed when input voltage less than 90VAC. Refer to output derating vs. input voltage (CA797-01-03_).



C1: Film Cap. 0.1 µF

C2: Elect. Cap. 100 µF