## ZWS15B/CO2

## SPECIFICATIONS

	CA791-01-01/CO2-A		SI Len Iem	10110			
_	MODEL		ZWS15B	ZWS15B	ZWS15B	ZWS15B	ZWS15B
	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	A	3.0	3.0	1.3	1.0	0.7
3	Maximum Output Power	W	9.9	15.0	15.6	15.0	16.8
4	Efficiency (Typ) (*1) 100VAC	%	70	76	80	81	82
	200VAC	%	71	78	83	84	85
5	Input Voltage Range (*2)(*12)	-		85-265VA0	C (47-63Hz) or 12	20 - 370VDC	
6	Input Current (Typ) (*1)	Α	0.24 / 0.15 0.34 / 0.17				
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 <u>&lt;</u> Ta <u>&lt;</u> 70°C, 35-100% Load	mV	120	120	150	150	150
	Ripple & <u>-10</u> ≤Ta<0°C, 35-100% Load		160	160	180	180	180
	Noise (*4)(*5) -10 <ta<70°c, 0-35%="" load<="" td=""><td></td><td>200</td><td>200</td><td>240</td><td>240</td><td>240</td></ta<70°c,>		200	200	240	240	240
10	Maximum Line Regulation (*4)(*6)		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)		3.15 -	3.15 -	1.37 -	1.05 -	0.74 -
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:40%)				
22	Operating Humidity	-	30 to 90%RH (No Condensing)				
23	Storage Temperature	-	-30 to +75°C 10 to 95%RH (No Condensing)				
24	Storage Humidity Cooling	-	Convection Cooling				
25 26	Withstand Voltage	-	Input - FG : 2kVAC (10mA), Input - Output : 3kVAC (10mA)				
20	withstand voltage	-	Output - FG : 2KVAC (10mA), Input - Output : 3KVAC (10mA) Output - FG : 500VAC (20mA) for 1min				
27	Isolation Resistance	-	More than $100M\Omega$ at 25°C and 70%RH Output - FG : 500VDC				
28	Vibration	-	At no operating, 10 to 55Hz (Sweep for 1min)				
20	Vibration	_	19.6m/s <sup>2</sup> Constant, X,Y,Z Ihour each.				
29	Shock	-	Less than 196.1m/s <sup>2</sup>				
30	Safety	-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1,				
50	Surety		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	55				
35	Size (W x H x D)	mm	50 x 22 x 87.5 ( 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 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.



- 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 (CA791-01-03\_).