ZWS30B/FV

SPECIFICATIONS

	CA797-01-01/FV-A		SILCHICA	1110110			
_	MODEL		ZWS30B	ZWS30B	ZWS30B	ZWS30B	ZWS30B
	ITEMS		-3/FV	-5/FV	-12/FV	-15/FV	-24/FV
1	Nominal Output Voltage	V	3.3	5	12	15	24
2	Maximum Output Current	A	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 - 265VA	C(47-63Hz) or 1	20- 370VDC	•
6	Input Current (Typ) (*1)		0.5 / 0.3 0.65 / 0.35				
7	Inrush Current (Typ) (*1)(*3)	-	15A at 100VAC,30A at 200VAC,Ta=25°C,Cold Start				
8	Output Voltage Range	-	Fixed				
9	Output Voltage Accuracy	V	3.1-3.5	4.8-5.2	11.5-12.5	14.4-15.6	23.0-25.0
10	Maximum 0≤Ta≤70°C, 35-100% Load	mV	120	120	150	150	150
	Ripple & -10 <u><</u> Ta<0°C, 35-100% Load	mV	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
11	Maximum Line Regulation (*4)(*6)	mV	20	20	48	60	96
12	Maximum Load Regulation (*4)(*7)	mV	40	40	96	120	150
13	No Load Power Consumption	-	Typical 0.2W at 100VAC/200VAC, 0.5W Max				
14	Temperature Coefficient (*4)	-	Less than 0.02% / °C				
15	Over Current Protection (*8)	Α	6.30 -	6.30 -	2.63 -	2.10 -	1.37 -
16	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
17	Hold-up Time (Typ) (*1)	-	20ms				
18	Leakage Current (*10)	-	0.15/0.30mA Max. (100VAC / 230VAC 60Hz)				
19	Remote Control	-	-				
20	Parallel Operation	-	-				
21	Series Operation	-	Possible				
22	Operating Temperature (*11)	-	Convection : -10 to +70°C (-10 to +50°C:100%, +60°C:70%, +70°C:20%)				
23	Operating Humidity	-	30 to 90%RH (No Condensing)				
24	Storage Temperature	-	-30 to +75°C				
25	Storage Humidity	-	10 to 95%RH (No Condensing)				
26	Cooling	-	Convection Cooling				
27	Withstand Voltage						
			Output - FG : 500VAC (20mA) for 1min				
28	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC				
29	Vibration	-	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	-	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.				
32	Conducted Emission	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
33	Radiated Emission	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
34	Immunity	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11				
35	Weight (Typ)	g	105				
36	Size (W x H x D)	mm		50 x 26 x 10	5 (Refer to Outli	ne 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.

*6. 85 - 265VAC, constant load.

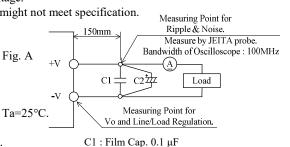
- *7. No load-Full load, constant input voltage.
- *8. Current limiting (hiccup) with automatic recovery.
 - Avoid to operate at over load or short circuit condition for more than 30seconds.

*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_).



C2 : Elect. Cap. 100 µF

^{*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.