

ZWS 15 Specifications

NEMIC-LAMBDA

*:For delivery, contact to our sales office.

A154-01-01B

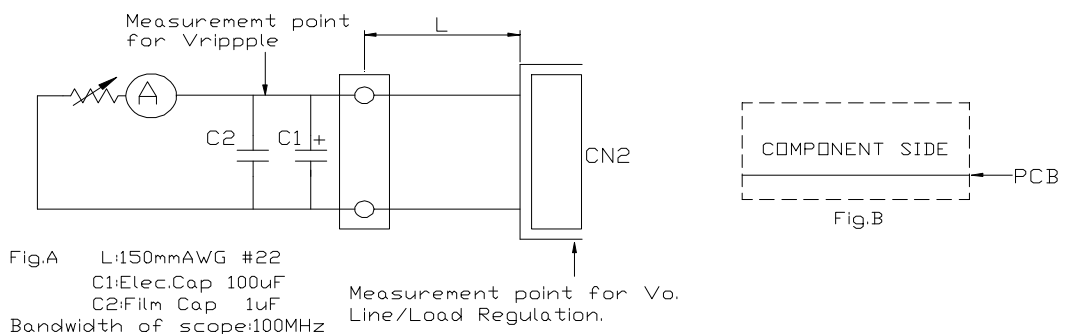
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ITEMS		MODEL	ZWS15 -3	ZWS15 -5	ZWS15 -12	ZWS15 -15	ZWS15 -24	
1	Nominal Output Voltage	V	3.3	5	12	15	24	
2	Minimum Output Current	A	0	0	0	0	0	
3	Maximum Output Current	A	3	3	1.25	1	0.65	
4	Maximum Peak Output Current (*1)	A	3.6	3.6	1.5	1.2	0.78	
5	Maximum Output Power	W	9.9	15	15	15	15.6	
6	Maximum Peak Output Power (*1)	W	11.88	18	18	18	18.72	
7	Efficiency (Typ) (*2)	%	63	71	71	71	71	
8	Input Voltage Range (*3)	-	85 - 265VAC (47 - 440Hz) or 110 - 330VDC					
9	Input Current (Typ)	-	0.45 at 100VAC, 0.23A at 200VAC					
10	Inrush Current(Typ)	-	15A at 100VAC, 30A at 200VAC (Ta = 25°C Cold Start)					
11	Output Voltage Range	-	±10%					
12	Maximum Ripple & Noise (*10)	0 - +60°C	mV	120	120	150	150	200
		-10 - 0°C	mV	160	160	180	180	200
13	Maximum Line Regulation (*4,10)	mV	20	20	48	60	96	
14	Maximum Load Regulation (*5,10)	mV	40	40	96	120	150	
15	Maximum Temperature Drift (*6)	mV	60	60	140	180	280	
16	Over Current Protection (*7)	-	125% -					
17	Over Voltage Protection (*8)	-	140% -					
18	Hold-up Time (Typ) (*2)	-	17mS at 100VAC, 15W, Ta = 25°C					
19	Parallel Operation	-	-					
20	Series Operation (*9)	-	Possible					
21	Operating Temperature (*11)	-	-10 - +50°C : 100%, +60°C : 70%					
22	Operating Humidity	-	30 - 90%RH (No dewdrop)					
23	Storage Temperature	-	-30 - +85°C					
24	Storage Humidity	-	10 - 95%RH (No dewdrop)					
25	Cooling	-	Convection Cooling					
26	Withstand Voltage	-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (100mA) for 1min					
27	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH , Output - FG : 500VDC					
28	Vibration	-	10-55Hz Amplitude (Sweep for 1min). Less than 2G, X,Y,Z 1hour each.					
29	Shock	-	Less than 20G					
30	Safety	UL1950	-	Approved				
		CSA950	-	Approved				
		EN60950	-	Approved				
		DENTORI	-	Built to meet				
31	Conducted Noise	-	Built to meet EN55011-B,EN55022-B, FCC-ClassB, VCCI-2.					
32	Weight (Typ)	g	140					
33	Size (WxHxD)	mm	50 x 21 x 125 (Refer to Outline Drawing)					

*Read instruction manual carefully, before using the power supply unit.

=NOTES=

- *1. Operating time at peak output is less than 10sec. (Duty = 0.35)
- *2. At 100VAC and maximum output current, Ta=25°C.
- *3. For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100-240VAC, 50/60Hz on name plate.
- *4. From 85 - 265VAC , constant load.
- *5. From Min load-Full load (Maximum power) and constant input voltage.
- *6. From -10 - +50°C, constant input voltage and load.
- *7. Current limiting with automatic recovery. Avoid to operate over load or dead short for 30 seconds.
- *8. Over voltage clamping by zener diode.
- *9. Refer to Instruction Manual.
- *10. Please refer to Fig A for measurement of line & load regulation and output ripple voltage.
- *11. At standard mounting method, Fig B.

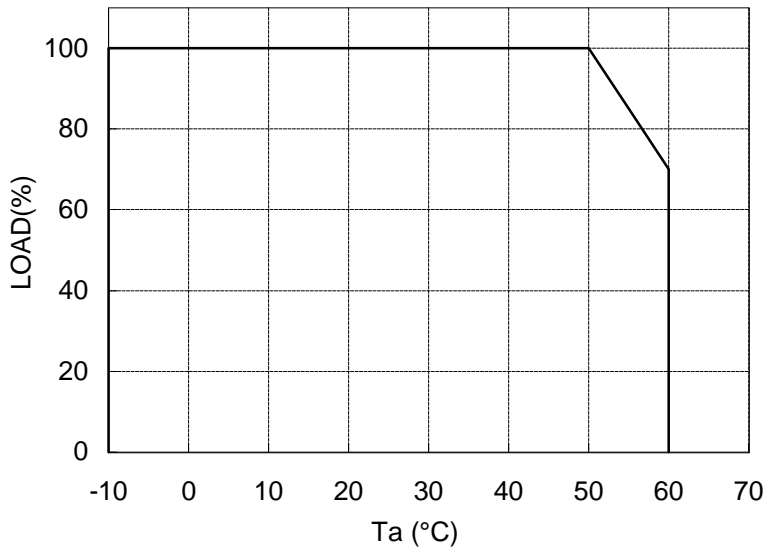


ZWS 15 OUTPUT DERATING

NEMIC-LAMBDA

Ta (°C)	LOAD(%)				
	MOUNTING : A	MOUNTING : B	MOUNTING : C	MOUNTING : D	MOUNTING : E
-10 - +40	100	100	100	100	100
50	100	100	100	100	100
55	85	85	85	85	85
60	70	70	70	70	70

OUTPUT DERATING CURVE



— MOUNTING :
A,B,C,D,E

MOUNTING : A

MOUNTING : B

MOUNTING : C

MOUNTING : D

MOUNTING : E

DON'T USE

(STANDARD

