

ZWS 5 Specifications

NEMIC-LAMBDA

*:For delivery, contact to our sales office.

A152-01-01B

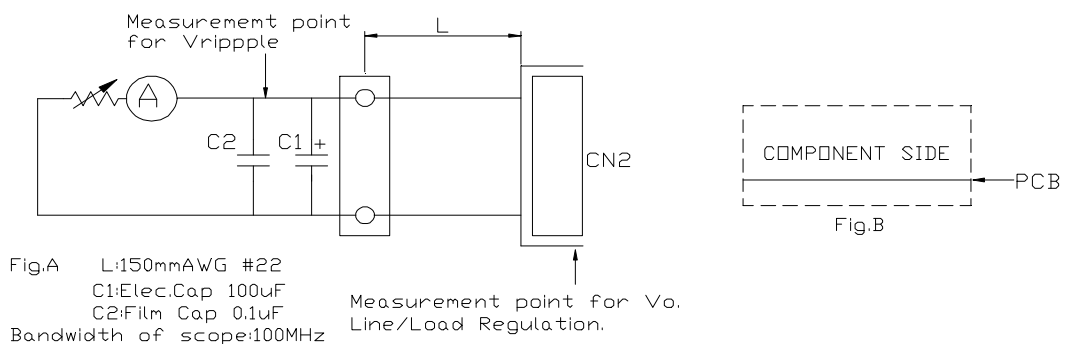
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ITEMS		MODEL	ZWS5 -3	ZWS5 -5	ZWS5 -12	ZWS5 -15	ZWS5 -24
1	Nominal Output Voltage	V	3.3	5	12	15	24
2	Minimum Output Current	A	0	0	0	0	0
3	Maximum Output Current	A	1	1	0.42	0.34	0.22
4	Maximum Peak Output Current (*1)	A	1.2	1.2	0.51	0.41	0.27
5	Maximum Output Power	W	3.3	5	5.04	5.1	5.28
6	Maximum Peak Output Power (*1)	W	3.96	6	6.048	6.12	6.336
7	Efficiency (Typ) (*2)	%	62	67	68	68	70
8	Input Voltage Range (*3)	-	85 - 265VAC (47 - 440Hz) or 110 - 330VDC				
9	Input Current (Typ)	-	0.14 at 100VAC, 0.07A 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	150	150	200
		-10 - 0°C	mV	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, 5W, 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	120				
33	Size (WxHxD)	mm	45 x 21 x 98 (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.

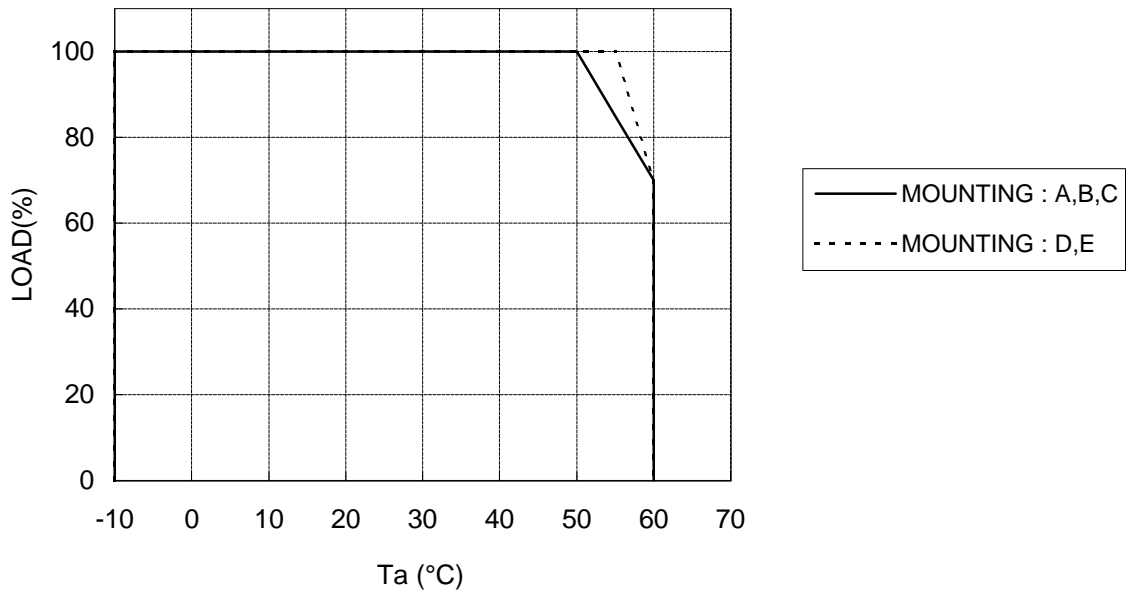


ZWS 5 OUTPUT DERATING

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	100	100
60	70	70	70	70	70

OUTPUT DERATING CURVE



MOUNTING : A

MOUNTING : B

MOUNTING : C

MOUNTING : D

MOUNTING : E

DON'T USE

(STANDARD MOUNTING)

