

ZWS 30

SPECIFICATIONS

A155-01-01C

MODEL			ZWS 30-3	ZWS 30-5	ZWS 30-12	ZWS 30-15	ZWS 30-24	ZWS 30-36	ZWS 30-48	
ITEMS										
1	Nominal Output Voltage	V	3.3	5	12	15	24	36	48	
2	Minimum Output Current	A	0	0	0	0	0	0	0	
3	Maximum Output Current	A	6.0	6.0	2.5	2.0	1.3	0.9	0.7	
4	Maximum Peak Output Current (*1)	A	7.20	7.20	3.00	2.40	1.56	1.08	0.84	
5	Maximum Output Power	W	19.8	30.0	30.0	30.0	31.2	32.4	33.6	
6	Maximum Peak Output Power (*1)	W	23.76	36.0	36.0	36.0	37.44	38.88	40.32	
7	Efficiency (Typ) (*2)	%	70	75	77	77	78	78	78	
8	Input Voltage Range (*3)	-	85 - 265VAC (47 - 440Hz) or 110 - 330VDC							
9	Input Current(Typ)	-	0.83A at 100VAC, 0.42A 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	300	400
		-10-0°C	mV	160	160	180	180	200	300	400
13	Maximum Line Regulation (*4,10)	mV	20	20	48	60	96	144	192	
14	Maximum Load Regulation (*5,10)	mV	40	40	96	120	150	240	300	
15	Maximum Temperature Drift (*6)	mV	60	60	140	180	280	420	560	
16	Over Current Protection (*7)	-	125% ~							
17	Over Voltage Protection (*8)	-	140% ~							
18	Hold-up Time (Typ) (*2)	-	17ms at 100VAC, 30W, Ta=25°C							
19	Parallel Operation	-	-							
20	Series Operation (*9)	-	Possible							
21	Operating Temperature (*11)	-	-10°C ~ +50°C : 100%, +60°C : 70%							
22	Operating Humidity	-	30 ~ 90% RH							
23	Storage Temperature	-	-30°C ~ +85°C							
24	Storage Humidity	-	10 ~ 95% RH							
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 (Sweep 1min) Less than 19.6m/s <sup>2</sup> X,Y,Z 1h each							
29	Shock	-	Less than 196.1m/s <sup>2</sup>							
30	Safety	-	Built to meet UL1950, CSA950, EN60950, DENTORI							
31	Conducted Noise	-	Built to meet EN55022-B, FCC-ClassB, VCCI-B							
32	Weight (Typ)	g	270							
33	Size (WxHxD)	mm	55x26x133							

=NOTES=

- \*1. Operating time at peak output is less than 10 seconds. (Duty=0.35)
- \*2. At 100VAC and maximum output current , Ta=25°C.
- \*3. For cases where conformance to various safety specs (UL,CSA) are required, to be described as 100 - 240VAC, 50/60Hz on name plate.
- \*4. From 85 - 265VAC and 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 ripple voltage.
- \*11. At standard mounting method, Fig B.

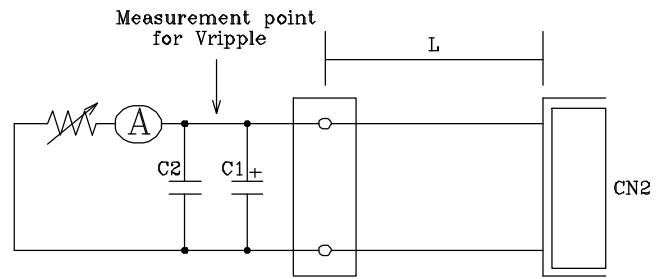


Fig.A L:150mmAWG#18x2  
C1:Elec.Cap 100uF  
C2:Film Cap 1uF  
Bandwidth of scope:100MHz

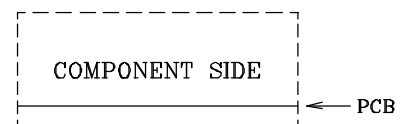


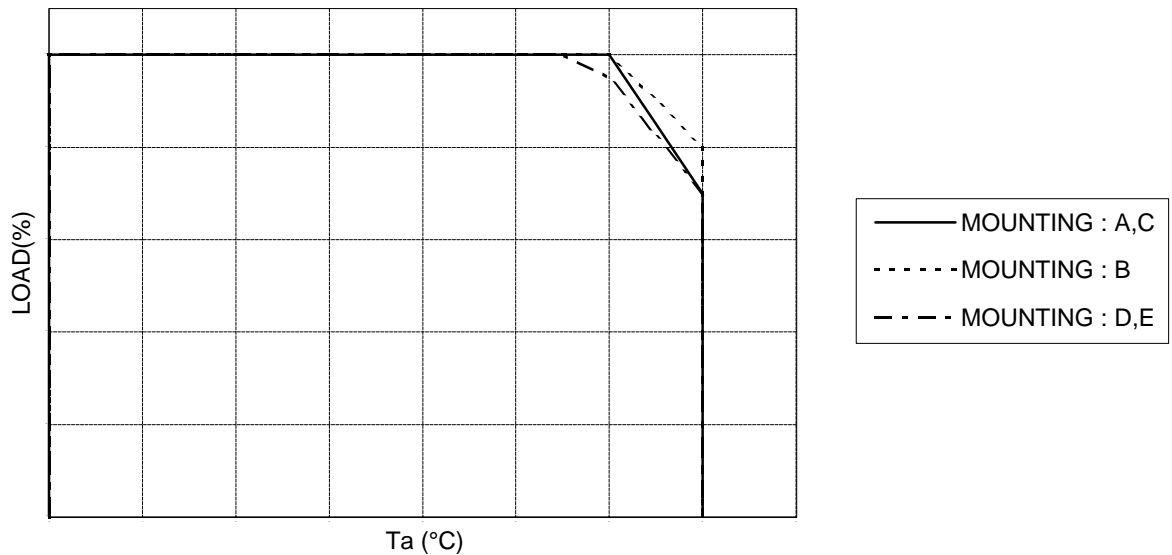
Fig.B

# ZWS 30 OUTPUT DERATING

NEMIC-LAMBDA

Ta (°C)	LOAD (%)				
	MOUNTING : A	MOUNTING : B	MOUNTING : C	MOUNTING : D	MOUNTING : E
-10 - +30	100	100	100	100	100
40	100	100	100	100	100
45	100	100	100	100	100
50	100	100	100	95	95
55	85	90	85	82.5	82.5
60	70	80	70	70	70

OUTPUT DERATING CURVE



MOUNTING : A

MOUNTING : B

MOUNTING : C

MOUNTING : D

MOUNTING : E

DON'T USE

(STANDARD MOUNTING)

