

ZWS 30

SPECIFICATIONS

A155-01-01D

ITEMS		MODEL	ZWS 30-3	ZWS 30-5	ZWS 30-12	ZWS 30-15	ZWS 30-24	ZWS 30-36	ZWS 30-48	
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 ² X,Y,Z 1h each							
29	Shock	-	Less than 196.1m/s ²							
30	Safety	-	Approved by UL60950-1,CSA60950-1,EN60950-1. Built to meet DENAN							
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.

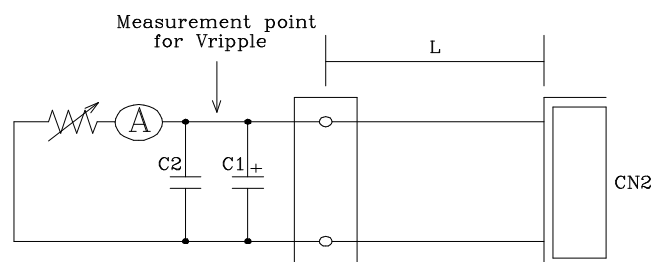


Fig.A L:150mmAWG#18x2
C1:Elec.Cap 100uF
C2:Film Cap 1uF
Bandwidth of scope:100MHz

Measurement point for Vo, Line/Load Regulation.

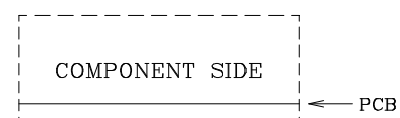


Fig.B

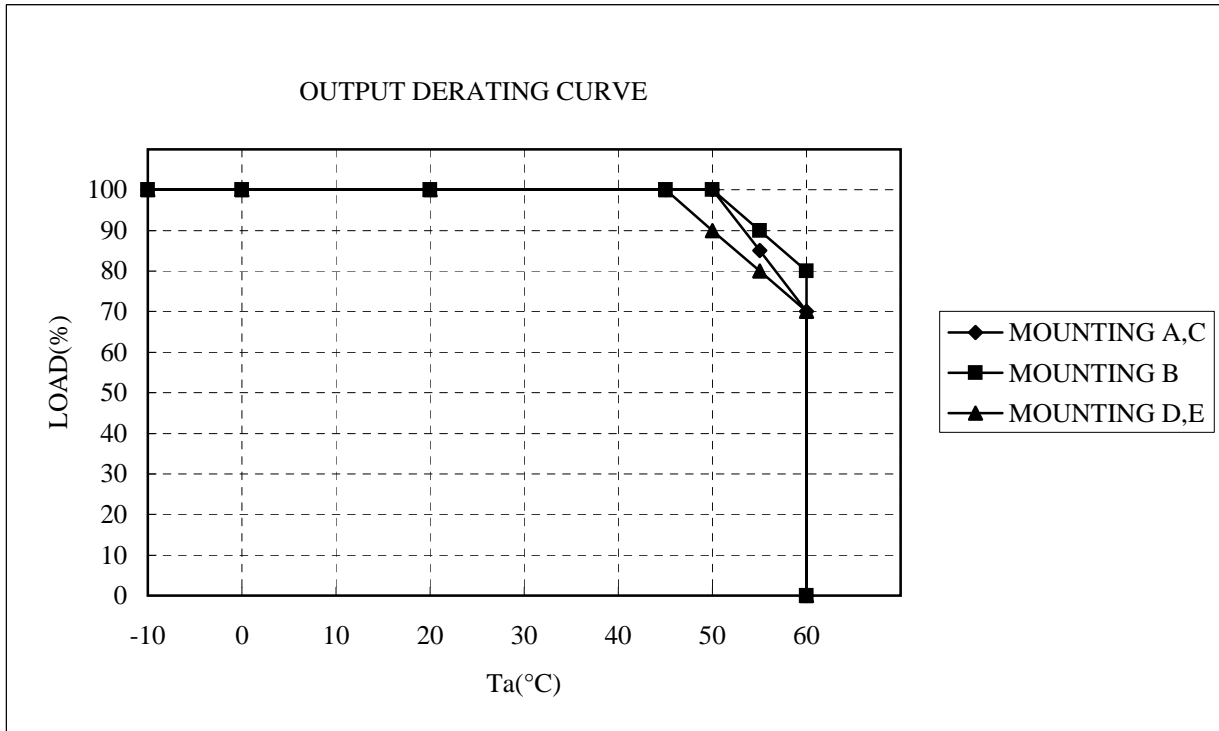
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OUTPUT DERATING

A155-01-02

COOLING : CONVECTION COOLING

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



- MOUNTING A
- MOUNTING B
- MOUNTING C
- MOUNTING D
- MOUNTING E
- DON'T USE

(STANDARD MOUNTING)

