

SPECIFICATIONS

PA769-01-01B

Item	Model	VD20-0512				
1	Nominal Output Voltage	V	5V $\pm$ 5%	12V $\pm$ 6%		
2	Minimum Output Current	A	0.01	0.01		
3	Maximum Output Current	A	1.00	1.00		
4	Peak Output Current (*1)(*2)	A	1.50	2.50		
5	Maximum Output Power/CH	W	5.00	12.00		
6	Maximum Output Power	W	17.00			
7	Peak Output Power/CH	W	7.50	30.00		
8	Peak Output Power	W	32.00			
9	Efficiency (Typ) (*3)	%	70			
10	Input Voltage Range (*4)	-	85-132VAC (47-440Hz)			
11	Input Current (Typ) (*3)	-	0.49A at 100VAC			
12	Inrush Current (Typ)	-	20A at 100VAC, Ta = 25°C COLD START			
13	Output Voltage Range	-	Fixed			
14	Maximum Ripple & Noise (*5)	mV	120	200		
15	Maximum Line Regulation (*5,6)	-				
16	Maximum Load Regulation (*5,7)	-	$\pm$ 5%	$\pm$ 6%		
17	Maximum Temperature Drift (*5,8)	-				
18	Over Current Protection (*9)	-	105%~			
19	Over Voltage Protection	-	None			
20	Hold-Up Time (Typ) (*3)	-	30 ms at 17W			
21	Operating Temperature (*10)	-	0~50°C			
22	Operating Humidity	-	30~90% RH			
23	Storage Temperature	-	-30~85°C			
24	Storage Humidity	-	10~95% RH			
25	Cooling	-	Convection Cooled			
26	Withstand Voltage	-	Input-Output : 2.0KVAC, Input-PG : 2.0KVAC Output-PG : 500VAC 1 min.			
27	Isolation Resistance	-	More than 100M Ω at 25°C and 70%RH Output-PG 500VDC			
28	Vibration	-	10-55Hz (sweep 1 min) Less than 19.6m/s ² X,Y,Z 1h each			
29	Shock	-	Less than 196.1m/s ²			
30	Safety	-	Built to meet UL1950-D3, CSA1402C & DENTORI			
31	Conducted Radio Noise	-	Built to meet VCCI-B & FCC class B			
32	Weight	-	250g			
33	Size (W.H.D.)	mm	110 X 28 X 45			
34	Other Functions (*11)	-	Built-in Aux Output			

NOTES

- * 1 : Operating time at peak output is less than 10 sec after AC throw in.
- * 2 : Combination of peak output current cannot exceed peak output power.
- * 3 : At 100VAC and maximum output power, Ta = 25°C
- * 4 : For cases where conformance to various safety specs (UL, CSA) are required, to be described as 100-120VAC, 50/60Hz on name plate.
- * 5 : Please refer to Fig A for measurement determination of line & load regulation and output ripple voltage.
- * 6 : From 85-132VAC, constant load.
- * 7 : From Min load - Full load (Maximum power), constant input voltage. Other channel constant rated maximum current.
- * 8 : From 0~+50°C, constant input voltage and load.
- * 9 : Current limiting with automatic recovery.
Avoid to operate over load or dead short for more than 30 sec
- * 10 : At standard mounting method, Fig B.
- * 11 : For signal indication(LED), +12V provide 10mA through 1.2k Ω internal resistor.

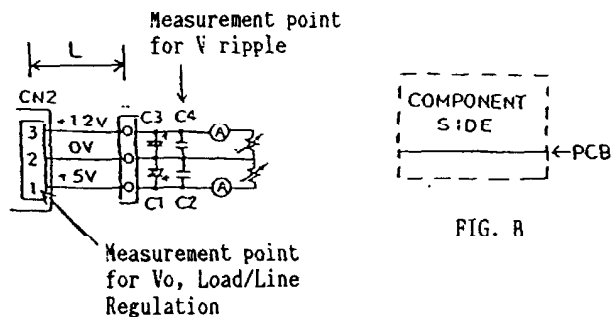


Fig. A

L : 150mm AWG #22
 C1,C3: Elec. Cap 100 μ F
 C2,C4: Film Cap 0.1 μ F

FIG. B

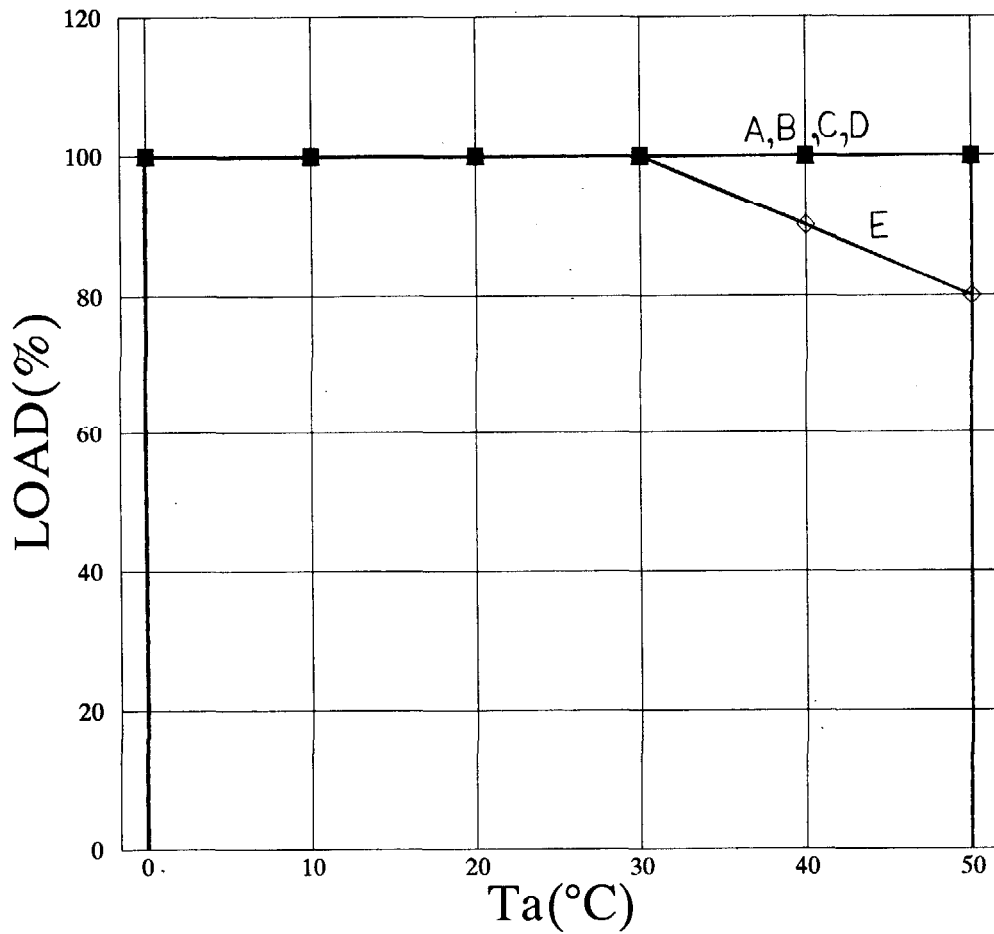
NEMIC - LAMBDA

VD20-0512

OUTPUT DERATING *COOLING: CONVECTION COOLING

LOAD (%)					
Ta(°C)	MOUNTING:A	MOUNTING:B	MOUNTING:C	MOUNTING:D	MOUNTING:E
0	100	100	100	100	100
25	100	100	100	100	100
40	100	100	100	100	90
50	100	100	100	100	80

OUTPUT DERATING CURVE



■ MOUNTING A ◆ MOUNTING B ▲ MOUNTING C
 □ MOUNTING D ◇ MOUNTING E

MOUNTING A

MOUNTING B

MOUNTING C

MOUNTING D

MOUNTING E

