



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SPECIFICATIONS

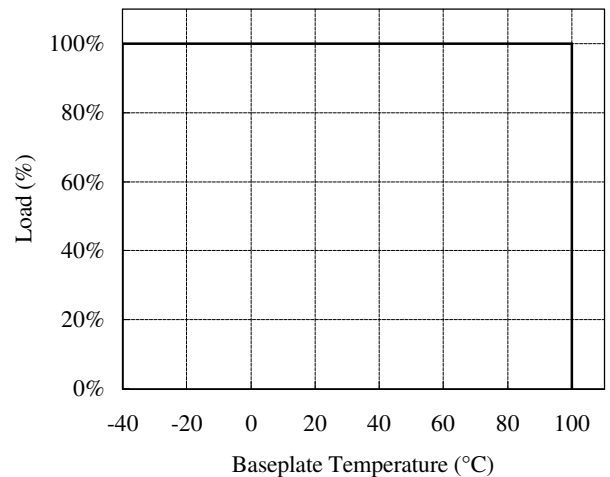
C160-01-01B

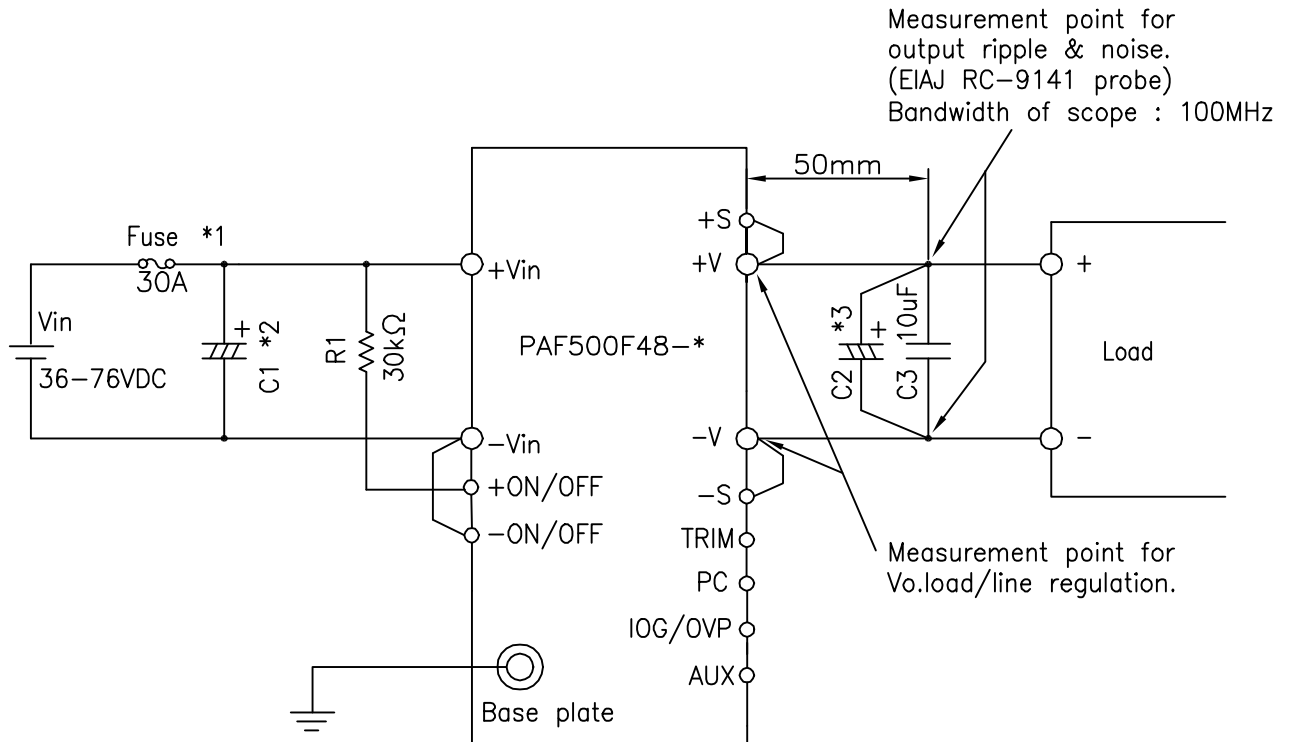
MODEL			PAF500F48-3.3	PAF500F48-5	PAF500F48-12	PAF500F48-28
ITEMS						
1	Nominal Output Voltage	V	3.3	5	12	28
2	Maximum Output Current	A	80	80	42	18
3	Nominal Output Power	W	264	400	504	504
4	Efficiency (Typ.)	(*1) %	78	83	89	90
5	Input Voltage Range	-	36 - 76VDC			
6	Input Current (Typ.)	(*2) A	7.3	10.4	12.2	12.1
7	Output Voltage Accuracy	(*2) %	±1			
8	Output Voltage Range	(*10) -	-40%, +20%		-40%, +10%	
9	Maximum Ripple & Noise	(*10) mV	100	100	200	280
10	Maximum Line Regulation	(*3) mV	10	10	24	56
11	Maximum Load Regulation	(*4) mV	10	10	24	56
12	Over Current Protection	(*5) -	105% - 140%			
13	Over Voltage Protection	(*6)(*9) -	130% - 160%	125% - 145%	115% - 135%	
14	Remote Sensing	(*9) -	Possible			
15	Remote ON/OFF Control	(*9) -	Possible (SHORT : ON OPEN : OFF)			
16	Parallel Operation	(*9) -	Possible			
17	Series Operation	(*9) -	Possible			
18	I.O.G. Signal	(*9) -				Possible (Open Collector Output)
19	Operating Temperature	(*7) -	-40°C - +100°C(Baseplate) Ambient Temperature min=-40°C			
20	Operating Humidity	-	20 - 95%RH (No Dewdrop)			
21	Storage Temperature	-	-40°C - +100°C			
22	Storage Humidity	-	10 - 95%RH (No Dewdrop)			
23	Cooling	(*8) -	Conduction Cooled			
24	Temperature Coefficient (%)	-	0.02%/°C			
25	Withstand Voltage	-	Input-Baseplate : 1.5kVDC, Input-Output : 1.5kVDC for 1min. Output-Baseplate : 500VDC for 1min.			
26	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output-Baseplate...500VDC			
27	Vibration	-	At No Operating, 10-55Hz (Sweep for 1min.) Amplitude 0.825mm Constant (Maximum 49.0m/s <sup>2</sup> ) X,Y,Z 1 Hour each			
28	Shock	-	196.1m/s <sup>2</sup>			
29	Weight (Typ.)	g	250			
30	Size (W x H x D)	mm	61 x 12.7 x 116.8 (Refer to Outline Drawing)			

=NOTES=

- \*1. At 48VDC, 80% of Maximum Output Current and Baseplate Temperature = +25°C.
- \*2. At 48VDC and Maximum Output Current.
- \*3. 36 - 76VDC, Constant Load.
- \*4. No load - Full load, Constant input voltage.
- \*5. Constant current limiting with automatic recovery.
- \*6. Inverter shutdown method, Manual Reset.
- \*7. Ratings - Refer to Derating Curve on the Right.  
- Load(%) is Percent of Maximum Output Current.
- \*8. Heatsink has to be Chosen According to Instruction Manual.
- \*9. Refer to Instruction Manual.
- \*10 External Components are Needed for Operation.  
(Refer to Basic Connection and Instruction Manual)

Derating Curve





==NOTE==

- \*1. Use an external fuse of fast blow type, for each unit.
- \*2. Put an input capacitor, C1, more than 100uF.  
If the ambient temperature is less than  $-20^{\circ}\text{C}$ ,  
use two pieces of the recommended capacitor above.  
If the impedance of input line is high,  
C1 capacitance must be more than above.
- \*3. Put an output capacitor. (3.3V,5V: more than 5600uF X 2 parallel,  
12V: more than 470uF, 28V: more than 220uF.)  
If the ambient temperature is less than  $-20^{\circ}\text{C}$ , for 12V & 28V  
model, use twice of the recommended capacitor value above.
- \*4. Refer to instruction manual for further details.

(unit : mm)

MODEL NAME	PAF500F48
<b>DENSEI-LAMBDA</b>	

C160-01-02B