

## SPECIFICATIONS

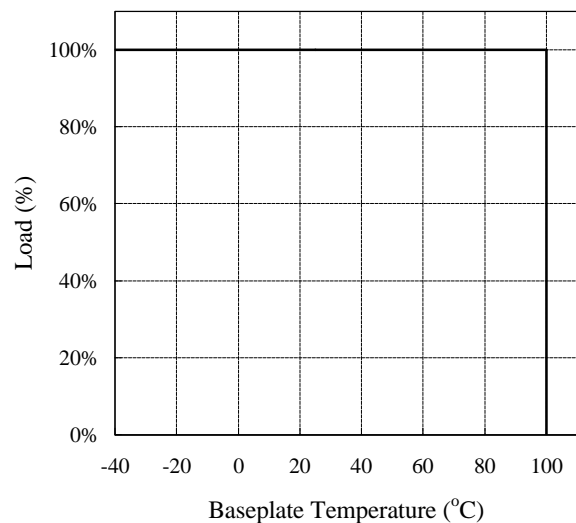
C169-01-01A

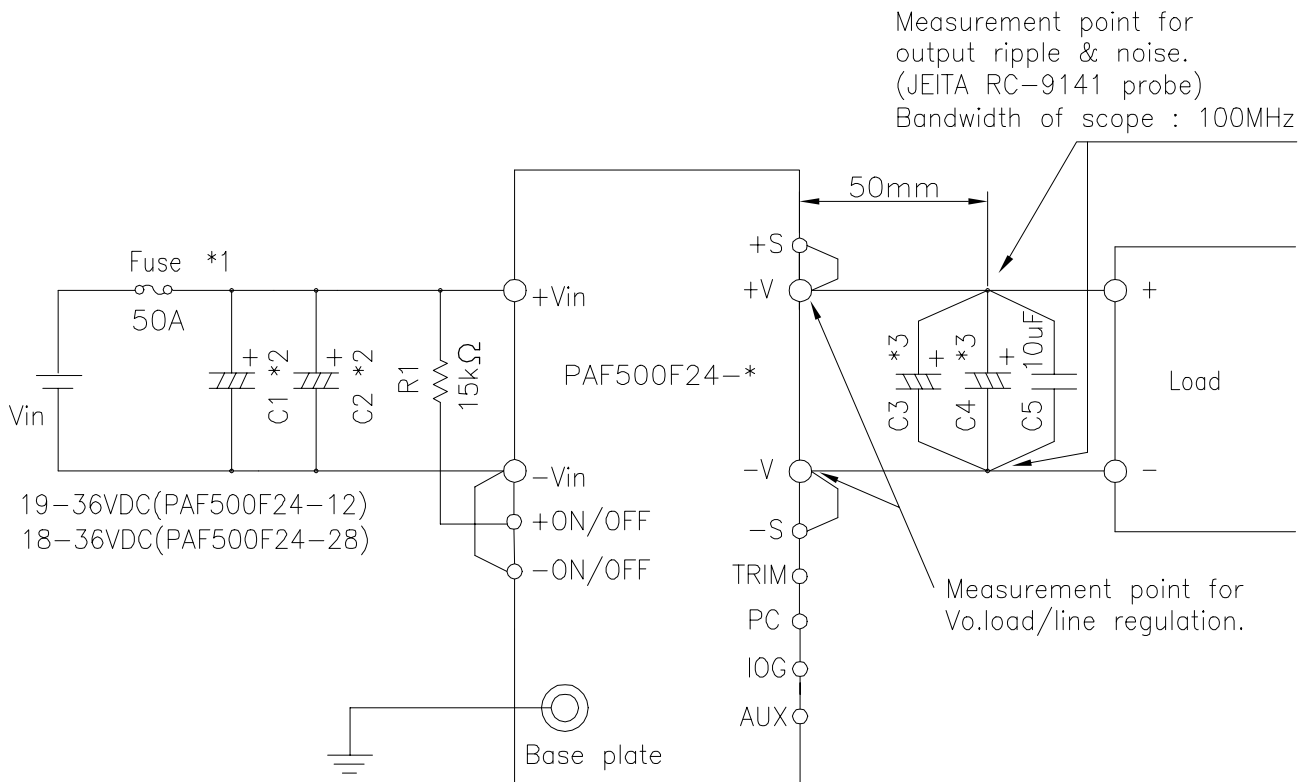
MODEL			PAF500F24-12	PAF500F24-28
ITEMS				
1	Nominal Output Voltage	V	12	28
2	Maximum Output Current	A	42	18
3	Nominal Output Power	W	504	504
4	Efficiency (Typ.)	(*1) %	89	90
5	Input Voltage Range	-	19 - 36VDC	18 - 36VDC
6	Input Current (Typ.)	(*2) A	24.0	23.8
7	Output Voltage Accuracy	(*2) %	±1	
8	Output Voltage Range	(*10) -	-40%, +10%	
9	Maximum Ripple & Noise	(*10) mV	200	280
10	Maximum Line Regulation	(*3) mV	24	56
11	Maximum Load Regulation	(*4) mV	24	56
12	Over Current Protection	(*5) -	105% - 140%	
13	Over Voltage Protection	(*6) -	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×H×D)	mm	61×12.7×116.8 (Refer to Outline Drawing)	

## =NOTES=

- \*1. At 24VDC, 80% of Maximum Output Current and  
Baseplate Temperature = +25°C
- \*2. At 24VDC and Maximum Output Current.
- \*3. 19 - 36VDC, Constant Load.(PAF500F24-12)  
18 - 36VDC, Constant Load.(PAF500F24-28)
- \*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 and C2, more than 560uF each.  
If the ambient temperature is less than  $-20^{\circ}\text{C}$ ,  
use twice of the recommended capacitor above.  
If the impedance of input line is high,  
C1 and C2 capacitance must be more than above.
- \*3. Put an output capacitor, C3 and C4 (12V: more than 470uF,  
28V: more than 220uF.)  
If the ambient temperature is less than  $-20^{\circ}\text{C}$ ,  
use twice of the recommended capacitor value above.
- \*4. Refer to instruction manual for further details.

MODEL NAME	PAF500F24
<b>DENSEI-LAMBDA</b>	