

## SPECIFICATIONS

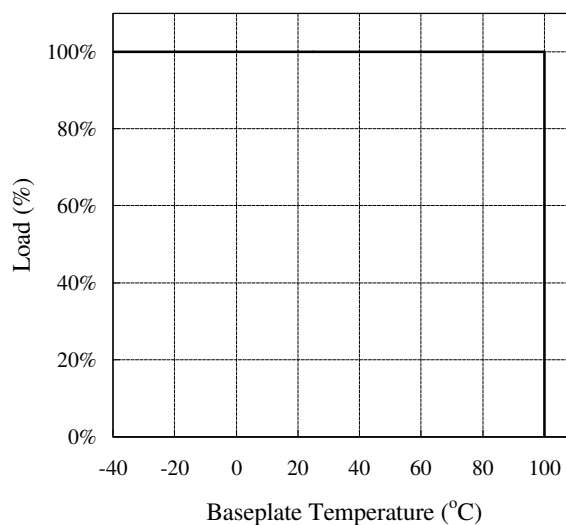
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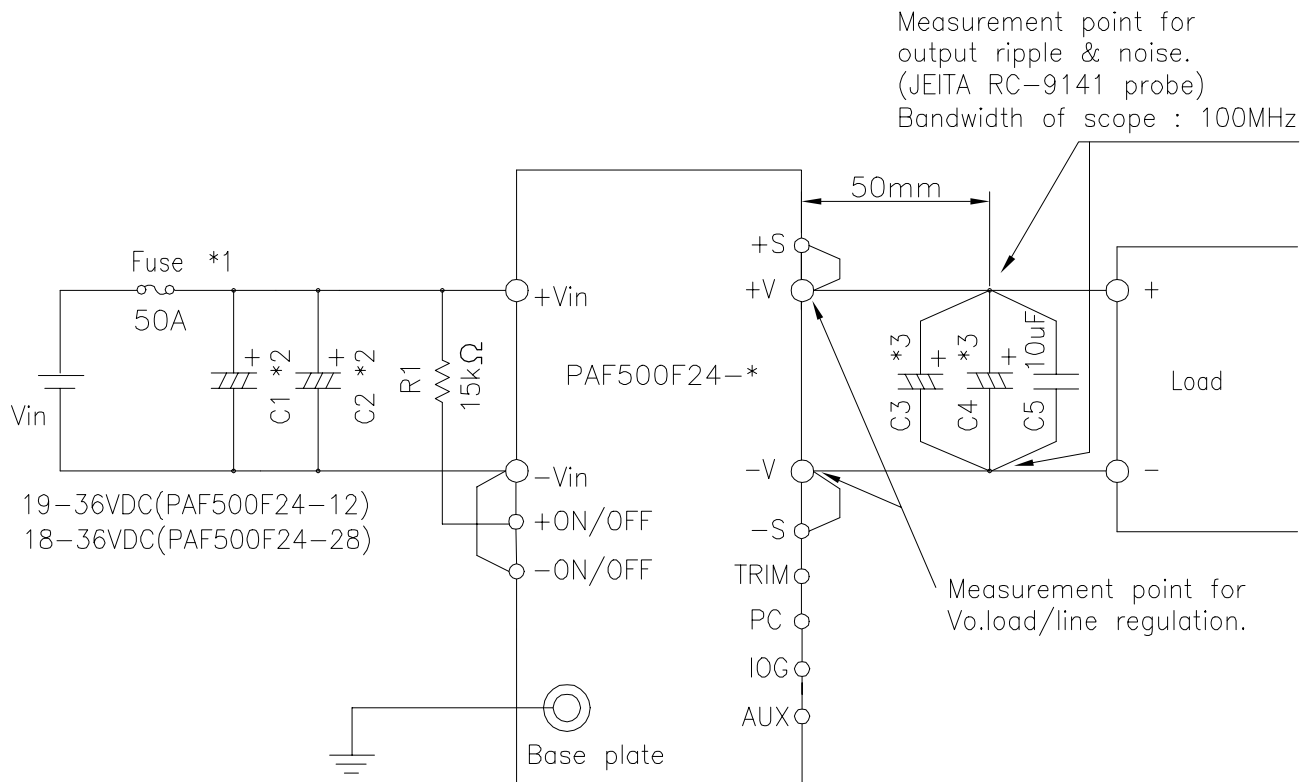
MODEL		PAF500F24-12	PAF500F24-28
ITEMS			
1	Nominal Output Voltage	V	12
2	Maximum Output Current	A	42
3	Nominal Output Power	W	504
4	Efficiency (Typ.) (*1)	%	89
5	Input Voltage Range	-	19 - 36VDC
6	Input Current (Typ.) (*2)	A	24.0
7	Output Voltage Accuracy (*2)	%	±1
8	Output Voltage Range (*10)	-	-40%, +10%
9	Maximum Ripple & Noise (*10)	mV	200
10	Maximum Line Regulation (*3)	mV	24
11	Maximum Load Regulation (*4)	mV	24
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>DENSE-LAMBDA</b>	