

PAF600F280

C176-01-21

SPECIFICATIONS

MODEL		PAF600F280-12	PAF600F280-24	PAF600F280-28	PAF600F280-48
ITEMS					
INPUT					
Input Voltage Range	VDC	200 - 400			
Efficiency (Typ.)	(*1) %	89	91	91	91
Input Current (Typ.)	(*1) A	2.41	2.35	2.36	2.35
OUTPUT					
Nominal Output Voltage	VDC	12	24	28	48
Output Voltage Accuracy	(*1) %	±1			
Maximum Output Current	A	50	25	21.5	12.5
Maximum Output Power	W	600	600	602	600
Maximum Line Regulation	(*2) mV	48	56	56	96
Maximum Load Regulation	(*3) mV	48	56	56	96
Temperature Coefficient	-	0.02%/°C			
Maximum Ripple & Noise	(*9) mVp-p	270	240	280	480
Output Voltage Range	(*9) VDC	7.2 - 14.4	14.4 - 28.8	16.8 - 33.6	28.8 - 57.6
Over Current Protection	(*4) -	105% - 140%			
Over Voltage Protection	(*5) -	125% - 145%			
FUNCTION					
Remote ON/OFF Control	(*8) -	Possible			
Remote Sensing	(*8) -	Possible			
Parallel Operation	(*8) -	Possible			
Series Operation	(*8) -	Possible			
ENVIRONMENT					
Operating Temperature	(*6) -	-40°C - +100°C(Baseplate) Ambient Temperature min=-40°C			
Storage Temperature	-	-40°C - +100°C			
Operating Humidity	-	5 - 95%RH (Non Condensing)			
Storage Humidity	-	5 - 95%RH (Non Condensing)			
Vibration	-	At No Operating, 10-55Hz (Sweep for 1min.) Amplitude 0.825 mm Constant (Maximum 49.0m/s ²) X,Y,Z 1 hour each			
Shock	-	196.1m/s ²			
Cooling	(*7) -	Conduction Cooled			
ISOLATION					
Withstand Voltage	(*10) -	Input-Output : 3.0kVAC for 1min. , Input-Baseplate : 2.5kVAC for 1min. (20mA) Output-Baseplate : 500VDC for 1min.			
Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH, Output - Baseplate 500VDC			
STANDARD AND COMPLIANCE					
Safety	-	Approved by IEC/EN/UL/CSA62368-1 (Altitude ≤ 2,000m)			
MECHANICAL					
Weight (Typ.)	g	200			
Size (W x H x D)	mm	61 x 12.7 x 116.8 (Refer to Outline Drawing)			

*Read Instruction Manual carefully, before using the power supply unit.

=NOTES=

*1. At 280VDC, nominal Output voltage maximum output current. (Baseplate Temperature = +25°C.)

*2. 200 - 400VDC input voltage, constant load.

*3. No Load - Full Load, constant input voltage.

*4. OCP TYPE : Constant current limiting with automatic recovery.

*5. Inverter shutdown method, Manual Reset.

*6. Ratings - Refer to Derating Curve (C176-01-23).

- Load(%) is Percent of Maximum Output Current.

*7. Heatsink has to be Chosen According to Instruction Manual.

*8. Refer to Instruction Manual.

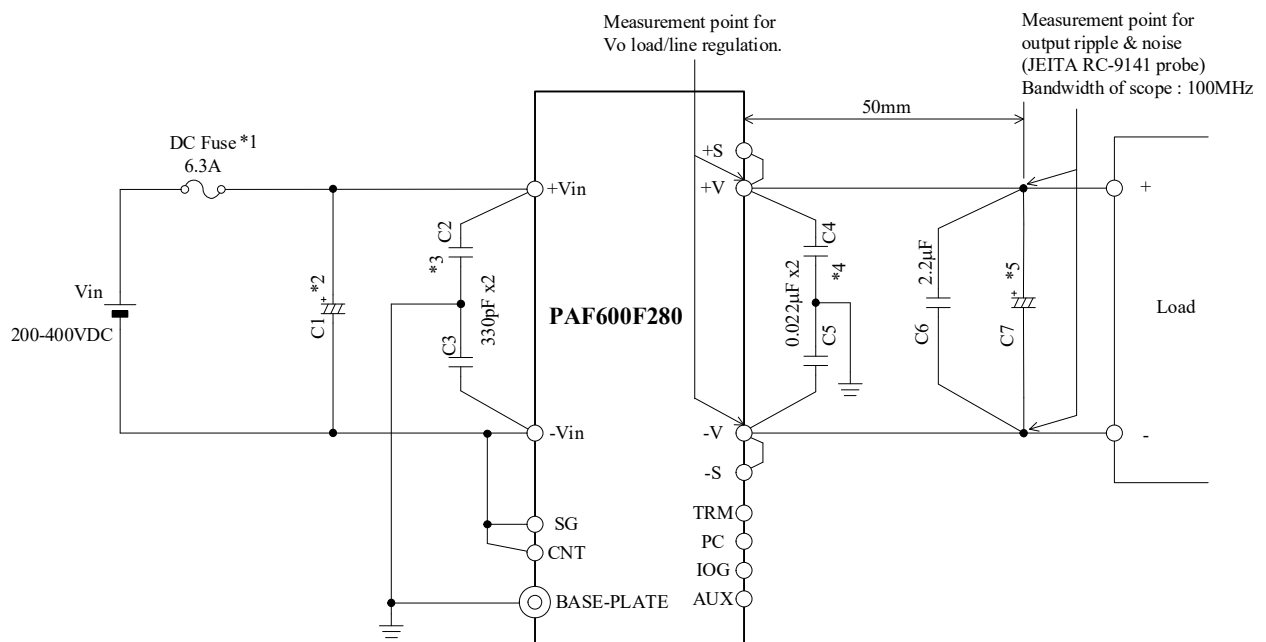
*9. External components are needed for operation. (Refer to Instruction Manual.)

*10. This specification applies to power supply module as stand-alone.

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BASIC CONNECTION



*Read instruction manual carefully, before using the power supply unit.

==NOTES==

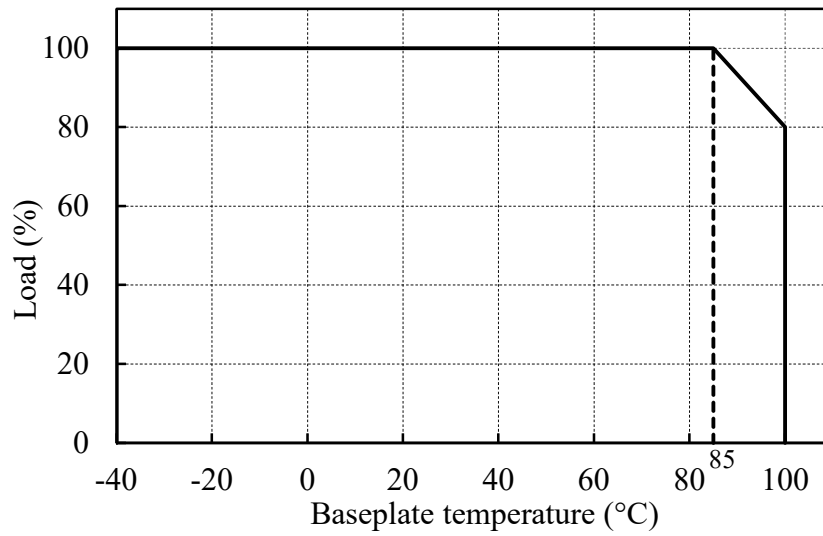
- *1. Use an external DC fuse(6.3A) of fast blow type or normal blow type, for each unit.
- *2. Put an input capacitor of C1(more than 22µF).
If the impedance of input line is high, C1 capacitance must be more than above.
- *3. Put capacitors between input lines and baseplate 330pF. (More than 3kVAC)
- *4. Put capacitors between output lines and baseplate 0.022µF. (More than 500VDC)
- *5. Put output capacitors,
 12V : more than 1000µF x2 Parallel
 24V,28V : more than 820µF
 48V : more than 1000µF x2 Series
 If the ambient temperature is less than -20°C, use twice the recommended capacitor above.

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DERATING CURVE

PAF600F280-12,24,28



PAF600F280-48

