

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.

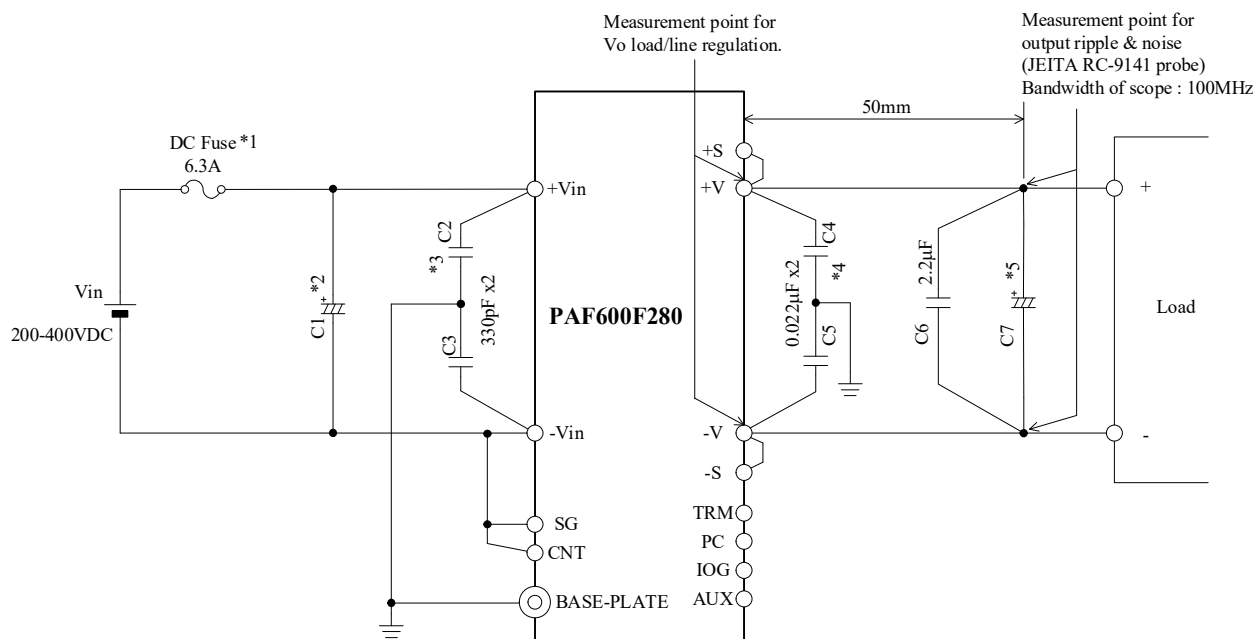
*9. External components are needed for operation. (Refer to Instruction Manual.)

*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

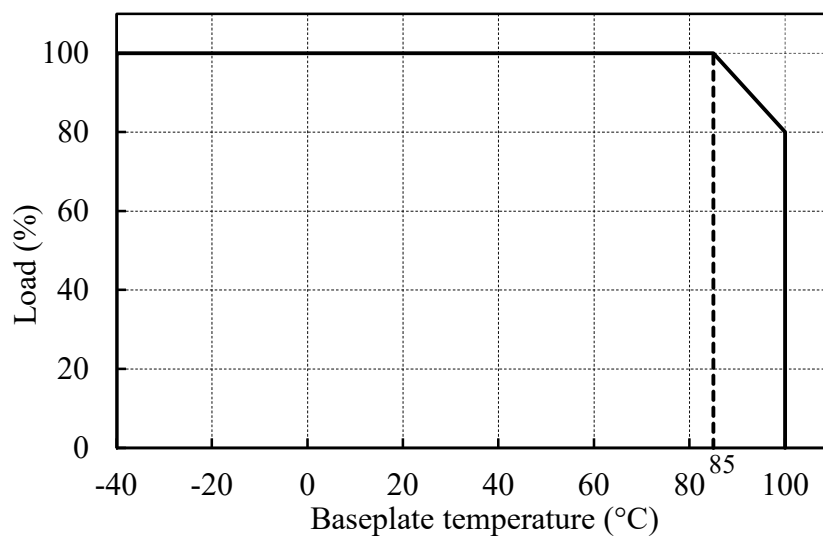
If the ambient temperature is less than -20°C, use twice the recommended capacitor above.

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DERATING CURVE

PAF600F280-12,24,28



PAF600F280-48

