PAF600F280-*

SPECIFICATIONS

C176-01-01A

	ITEMS / MODEL			PAF600F280-12	PAF600F280-24	PAF600F280-28	PAF600F280-48
1	Nominal Output Voltage		V	12	24	28	48
2	Maximum Output Current		A	50	25	21.5	12.5
3	Nominal Output Power		W	600	600	602	600
4	Efficiency (Typ.)	(*1)	%	89	91	91	91
5	Input Voltage Range		-	200 - 400VDC			
6	Input Current (Typ.)	(*1)	A	2.41	2.35	2.36	2.35
7	Output Voltage Accuracy	(*1)	%	+/-1			
8	Output Voltage Range	(*9)	-	-40%/ +20%			
9	Maximum Ripple & Noise	(*9)	mV	120	240	280	480
10	Maximum Line Regulation	(*2)	mV	48	56	56	96
11	Maximum Load Regulation	(*3)	mV	48	56	56	96
12	Over Current Protection	(*4)	-	105% - 140%			
13	Over Voltage Protection	(*5)	-	125% - 145%			
14	Remote Sensing	(*8)	-	Possible			
15	Remote ON/OFF Control	(*8)	-	Possible (SHORT:ON OPEN:OFF)			
16	Parallel Operation	(*8)	-	Possible			
17	Series Operation	(*8)	-	Possible			
18	Operating Temperature	(*6)	-	-40°C - +100°C(Baseplate) Ambient Temperature min=-40°C			
19	Operating Humidity		-	5 - 95%RH (No Dewdrop)			
20	Storage Temperature		-	-40°C - +100°C			
21	Storage Humidity		-	5 - 95%RH (No Dewdrop)			
22	Cooling	(*7)	-	Conduction Cooled			
23	Temperature Coefficient (%)		-	0.02%/°C			
24	Withstand Voltage		- -	Input-Output: 3.0kVAC, Input-Baseplate: 2.5kVAC(20mA) 1min Output-Baseplate: 500VDC 1min			
25	Isolation Resistance		-	Output to Baseplate 500VDC more than 100MΩ(25°C,70%RH)			
26	Vibration		- -	At No Operating, 10-55Hz (Sweep for 1min.) Amplitude 0.825mm Constant (Maximum 49.0m/s^2) X, Y, Z 1 hour each			
27	Shock		-	196.1m/s^2			
28	Weight (Typ.)		g	200			
29	Size (W×H×D)		mm	61 x 12.7 x 116.8 (Refer to Outline Drawing)			

=NOTES=

*1. At 280VDC, Nominal Output voltage, Maximum Output Current and Baseplate Temperature = +25°C.

*2. 200 - 400VDC, Constant Load.

*3. No load - Full load, Constant input voltage.

*4. Constant current limiting with automatic recovery.

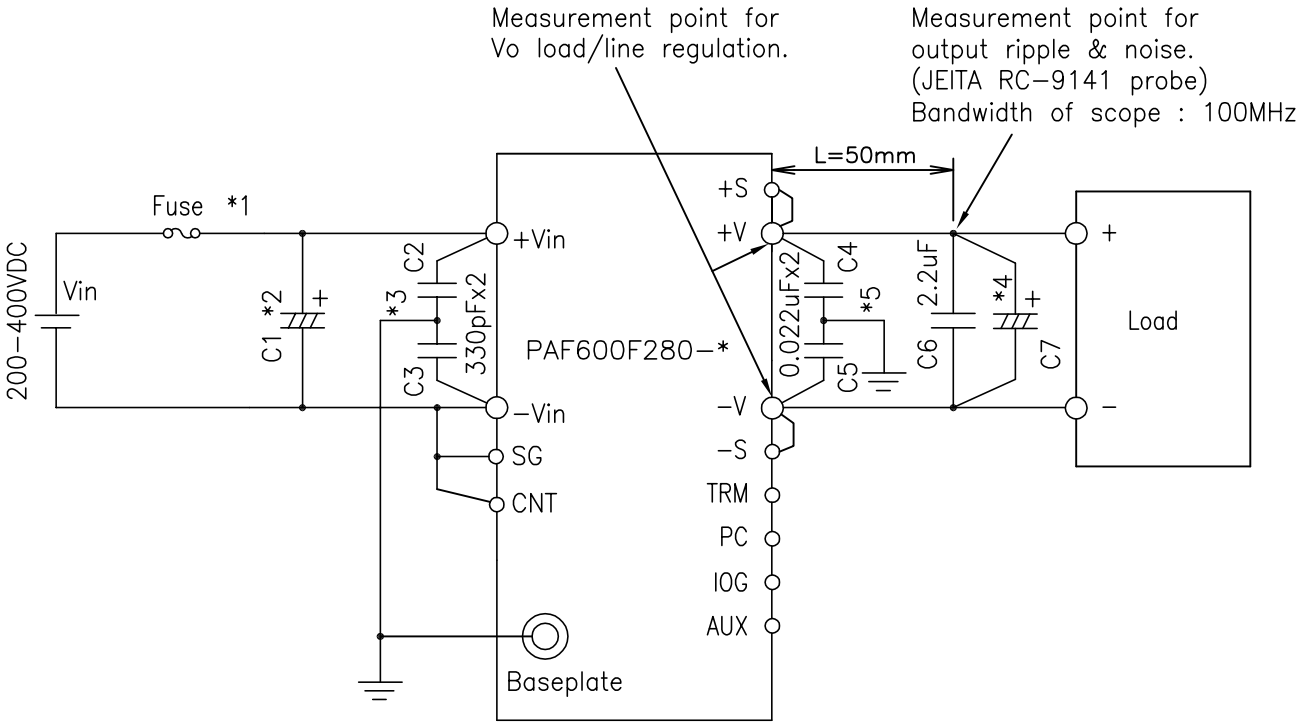
*5. Inverter shutdown method, Manual Reset.

*6. Ratings - Refer to Derating Curve (C176-01-03_).
- 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 Basic Connection and Instruction Manual)



==NOTE==

*1. Use an external fuse(6.3A) of fast blow type or normal blow type, for each unit.

*2. Put an input capacitor of C1(more than 22uF). 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 output capacitors, (12V: more than 1000uF x2 Parallel, 24V,28V: more than 820uF, 48V: more than 1000uF x2 Series.)
If the ambient temperature is less than −20°C, use twice the recommended capacitor above.

*5. Put capacitors between output lines and baseplate 0.022uF. (More than 500VDC)

*6. For Measurement of efficiency, measure output voltage directly at the output terminal pins.

*7. Refer to instruction manual for further details.

(unit : mm)

MODEL NAME	PAF600F280
TDK-Lambda	

C176-01-02A

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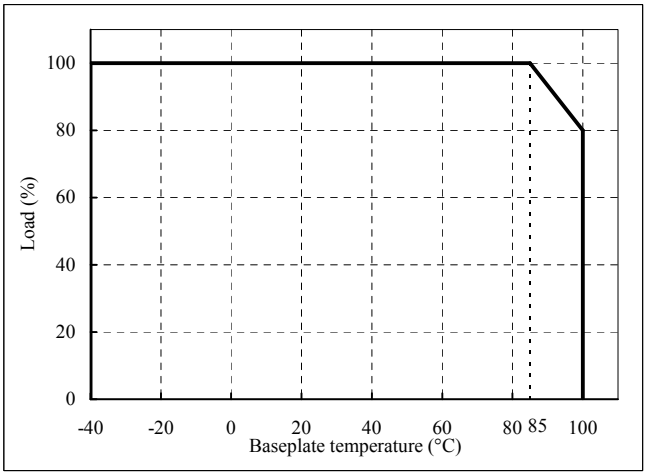
C176-01-03A

DERATING CURVE

PAF600F280-12,24,28



PAF600F280-48