## **SPECIFICATIONS**

#### C252-01-01/300-B

MODEL				PFE300S-12	PFE300S-28	PFE300S-48
1	Nominal Output Voltage		V	12	28	48
2	Maximum Output Current		A	25	10.8	6.3
3	Nominal Output Power		W	300	302.4	302.4
4	Efficiency (Typ.)	(*1)	%	81 / 83	83 / 85	83 / 85
5	Input Voltage Range	(*2) (*5)	-	85 - 265 VAC		
6	Input Frequency	(*2)	Hz	47 - 63		
7	Input Current	(*1)	A	4.0 / 2.0	4.0 / 2.0	4.0 / 2.0
8	Power Factor	(*1)(*5)	-	0.95 min		
9	Output Voltage Accuracy	(*1)	%	+/-2		
10	Output Voltage Range		%	-20 / +20		
11	Maximum Ripple & Noise	(*5)	mV	120	280	480
12	Maximum Line Regulation		mV	48	56	96
13	Maximum Load Regulation		mV	48	56	96
14	Over Current Protection		-	105% - 140% (Automatic recovery method)		
15	Over Voltage Protection		-	125% - 145% (Inverter shutdown method)		
16	In-rush Current (Typ.)	(*1)(*5)	A	20A / 40A peak		
17	Parallel Operation		-	-		
18	Series Operation	(*6)	-	Possible		
19	Operating Temperature	(*3)(*7)	-	-40°C - +100°C(Baseplate)		
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	(*4)	-	Conduction Cooled		
24	Temperature Coefficient		-	Less than 0.02% / °C		
25	Withstand Voltage		-	Input-Baseplate: 2.5kVAC, Input-Output: 3.0kVAC for 1min.		
				Output-Baseplate: 1.5kVDC for 1min.		
26	Isolation Resistance		-	Output to Baseplate 500VDC more than 100MΩ (25°C,70%RH)		
27	Vibration		-	At No Operating, 10-55Hz (Sweep for 1min.)		
				Amplitude 0.825mm Constant (Maximum 49.0m/s²) X,Y,Z 1 hour each		
28	Shock		-	196.1m/s <sup>2</sup>		
29	Safety		-	Approved by UL60950-1,CSA60950-1,EN60950-1		
30	Weight (Typ.)		g	250		
31	31 Size (W x H x D) mr			61 x 12.7 x 116.8 (Refer to Outline Drawing)		

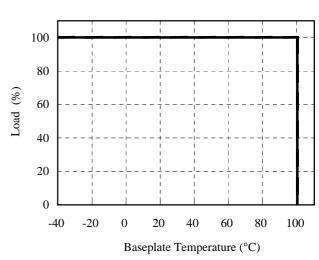
 $<sup>{</sup>m *Read}$  instruction manual carefully, before using the power supply unit.

### =NOTES=

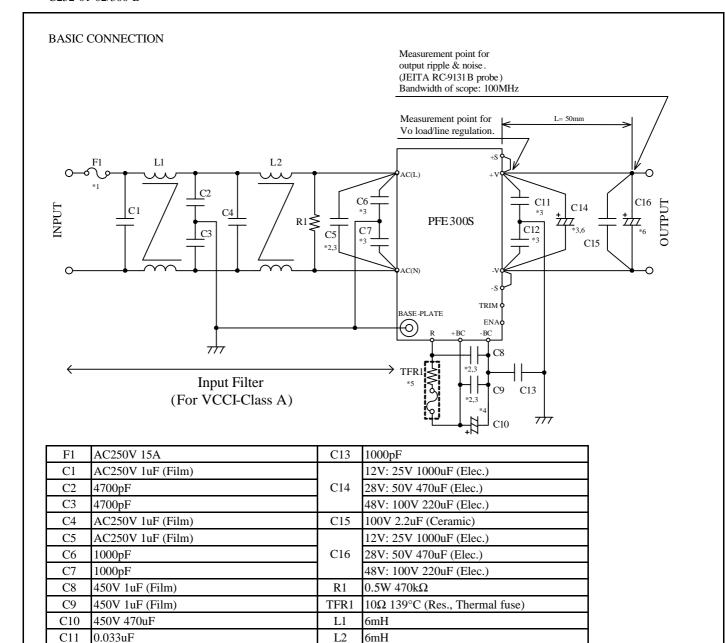
- \*1. At 100VAC/200VAC and maximum output power. (Baseplate Temperature = +25°C.)
- \*2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100 240VAC(50/60Hz).
- \*3. Ratings refer to Derating Curve on the right.
- \*4. Heatsink has to be chosen according to Instruction manual.
- \*5. External components are needed for operation.

  (Refer to basic connection and instruction manual.)
- \*6. Refer to Instruction manual.
- \*7. Ambient Temperature min=-40°C
- \*8. Start-up at Vin=83VAC guaranteed.

# Derating Curve



C252-01-02/300-B



#### ==NOTES==

0.033uF

C12

- \*1. Use an external fuse of fast blow type for each unit.
- \*2. The allowable ripple current of capacitor must be more than 3A(rms).
- \*3. Put this capacitor near the terminal as close as possible.
- \*4. The maximum capacitance that can be used is less than 1200uF(Rated capacitance). Avoid the connection of capacitance which is more than above, else it will lead to module to damage.
- \*5. The inrush current at AC throw in can be suppressed by the external Resistor (Built-in thermal fuse) connected between the R and +BC terminals.
- \*6. If the ambient temperature is less than -20°C, use twice the recommended capacitor above.
- \*7. Refer to instruction manual for further details.