CPF1200F280/S

SPECIFICATIONS

CA835-01-01/S1-A

	ITEMS / MODEL			CPF1200F280-14/S
1	Nominal Output Voltage		V	14
2	Maximum Output Current		A	86
3	Nominal Output Power		W	1204
4	Efficiency (Typ)	(*1)	%	86%@20%FL, 93%@50%FL, 92%@100%FL
5	Input Voltage Range		-	200 - 400VDC
6	Input Current (Typ.)	(*1)	A	4.6
7	Output Voltage Accuracy	(*1)	%	+/-1
8	Output Voltage Range	(*9)	V	7.2 ~ 14
9	Maximum Ripple & Noise	(*9)	mV	140
10	Maximum Line Regulation	(*2,*6)	mV	48
11	Maximum Load Regulation	(*3)	mV	48
12	Over Current Protection	(*4,*5)	-	105% - 140%
13	Over Voltage Protection	(*5)	V	14.88 ~ 18
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), -40°C - +85°C (Ambient)
19	Operating Humidity		-	5 - 95%RH (No Dewdrop)
20	Storage Temperature		-	-40℃ - +100℃
21	Storage Humidity		-	5 - 95%RH (No Dewdrop)
22	Cooling	(*7)	-	Conduction Cooled
23	Temperature Coefficient (%)		-	0.02%/℃
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℃,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)

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

=NOTES=

*1. At 280VDC, Nominal Output voltage, Maximum Output Current and Baseplate Temperature = +25°C.
At 350VDC for specification of Efficiency.

*2. 200 - 400VDC, Constant Load - Refer to Derating Curve (CA835-01-03/S1).

*3. No load - Full load, input voltage 200 - 400VDC - Refer to Derating Curve (CA835-01-03/S1).
At light load, the power supply works in burst mode for energy saving, the maximum load regulation will be 96mV at no load, add a 100mA dummy load can achieve less than 48mV performance.

*4. Constant current limiting with automatic recovery.(The unit automatically shutdown when left in OCP condition, with the ouput voltage less than the LVP level.Refer to instruction manual.)

*5. Inverter shutdown method, Manual Reset.

*6. Ratings - Refer to Derating Curve (CA835-01-03/S1).
- Load(%) is Percent of Maximum Output Power.

*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)
At light load, the power supply works in burst mode for energy saving, the maximum ripple & noise will be 240mV at no load, add a 100mA dummy load can achieve less than 140mV performance.

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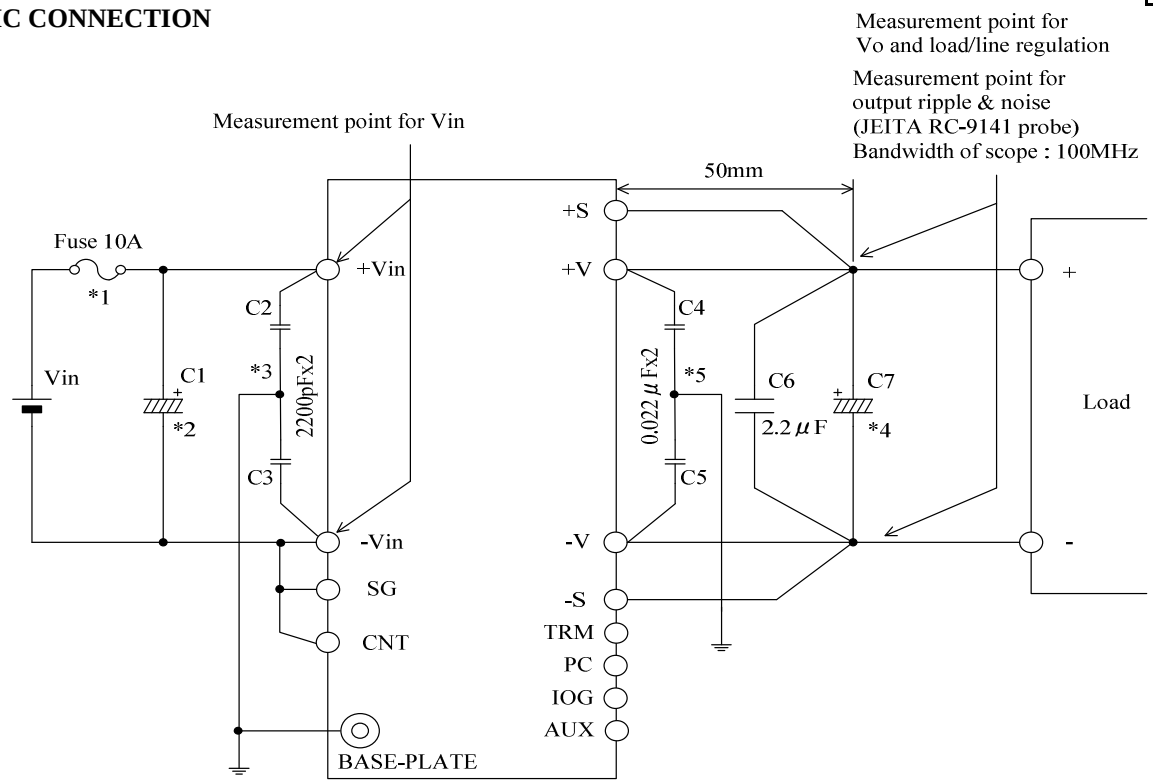
BASIC CONNECTION



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

Withstand Voltage

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

*2. Put input capacitor.
C1 : Electrolytic capacitor More than 450VDC, 22μF
1) Use low impedance electrolytic capacitor with excellent temperature characteristics.
2) Use two capacitors(450V, 22μF) in parallel when ambient temperature is -20°C or lower to reduce ESR.
3) If the impedance of input line is high, C1 capacitance must be more than above.

*3. Put FG capacitor.
C2, C3 : Put 2200pF capacitor between input lines and baseplate (More than 3.0kVAC).

*4. Put output capacitor.
C7 : Electrolytic capacitor
14V : 25VDC , 1500μF x2 Parallel

1) Use low impedance electrolytic capacitor with excellent temperature characteristics.
2) Use more than twice recommended capacitor above in parallel when ambient temperature is -20℃ or lower to reduce ESR.

*5. Put FG capacitor.
C4, C5 : Put 0.022μF capacitor between output lines and baseplate (More than 500VDC).

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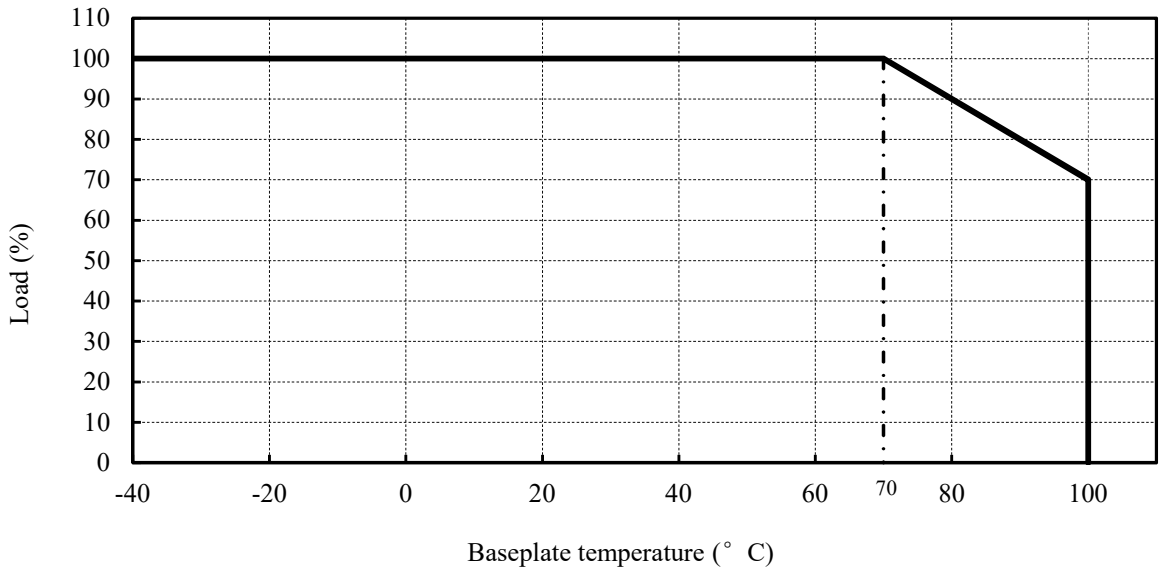
DERATING CURVE :

Derating Curve: Tb V.S Load



Derating Curve: Vin V.S Output Voltage