PF1500B-360

SPECIFICATIONS

CA906-01-01B

	ITEMS / MODEL			PF1500B-360	
1	Nominal Output Voltage		V	360	
2	Nominal Input Voltage		-	100 - 240 Vac	200 - 240 Vac
3	Available Input Voltage Range	(*7)	-	85 - 265 Vac	170 - 265 Vac
4	Input Voltage Range with PFHC	(*11)	-	85 - 255 Vac	170 - 255 Vac
5	Maximum Output Current		A	2.8	4.2
6	Nominal Output Power		W	1008	1512
7	Efficiency (Typ.)	(*1)	%	93.5 @100Vac; 94.0@115Vac	96.5 @230Vac
8	Input Frequency	(*3)	Hz	47 - 63	
9	Input Current (Typ.)	(*1)	A	10.6	6.8
10	In-rush Current	(*2,10)	A	25A peak @230V, typical	
11	Power Factor (Min.)	(*1)	-	0.98	
12	Output Voltage Accuracy		%	± 2	
13	Maximum Ripple Voltage	(*1,2,9)	V	20 (Vp-p)	
14	Maximum Line Regulation	(*4)	V	5	
15	Maximum Load Regulation	(*5)	V	10	
16	Over Voltage Protection	(*6)	V	390 - 425	
17	Over Temperature Protection	(*6)	℃	105 - 130	
18	Auxiliary Voltage		V	10 - 16	
19	Auxiliary Current (Max.)		mA	10	
20	Parallel Operation	(*8)	-	Possible	
21	Series Operation		-	Not Possible	
22	Alarm Signal	(*8)	-	IOG (Inverter Operation Good) Signal	
23	Function Signals	(*8)	- -	CNT (ON/OFF Control), ENA (Load Enable), PC (Parallel Control), SG (Signal Ground)	
24	Operating Temperature	(*7)	-	-40°C - +100°C (Baseplate),-40°C - +85°C (Ambient)	
25	Operating Humidity		-	20 - 95%RH (No Dewdrop)	
26	Storage Temperature		-	-40℃ - +100℃	
27	Storage Humidity		-	10 - 95%RH (No Dewdrop)	
28	Cooling	(*8.9)	-	Conduction Cooled	
29	Temperature Coefficient		-	0.02%/℃	
30	Withstand Voltage		-	Terminal Pins - Base plate: 2.5kVAC (10mA) 1min.	
31	Isolation Resistance		-	More than 100MΩ at 25℃,70%RH with 500VDC applying	
32	Vibration		- -	At no operating, 10-55Hz (Sweep for 1min.) Amplitude 0.825mm constant (maximum 49.0m/s^2) X, Y, Z 1 hour each	
33	Shock		-	Less than 196.1m/s^2 (in Package)	
34	Safety		-	Approved by IEC/EN/UL 62368-1	
35	Weight (Typ.)		g	200	
36	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 100VAC/230VAC and maximum output power. (Baseplate Temperature = +25℃.)
*2. External components are needed for operation. (Refer to basic connection CA906-01-03_ and instruction manual.)
*3. For case where conformance to various safety specs (UL, CSA, IEC) are required, input voltage range will be 100 - 240VAC(50/60 Hz).
*4. At input range with PFHC operation, with constant load.
*5. No load to Full Load, with constant input voltage.
*6. Inverter Shut-down Method with Manual reset which is to cut off input voltage and cool baseplate temperature.
*7. Ratings - Refer to the Derating Curve CA906-01-02_.
*8. Refer to Instruction Manual for details.
*9. Heatsink has to be chosen according to Instruction Manual.
*10. First inrush current. Not applicable for the inrush current to Noise Filter for less than 0.2ms.
*11. PFHC Range. At 255 - 265 VAC, This module operates as a rectifier.

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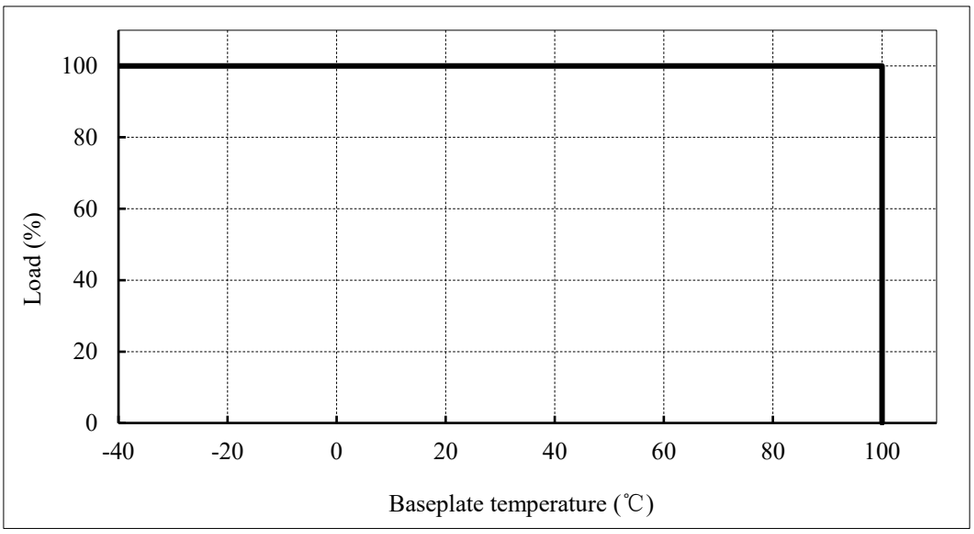
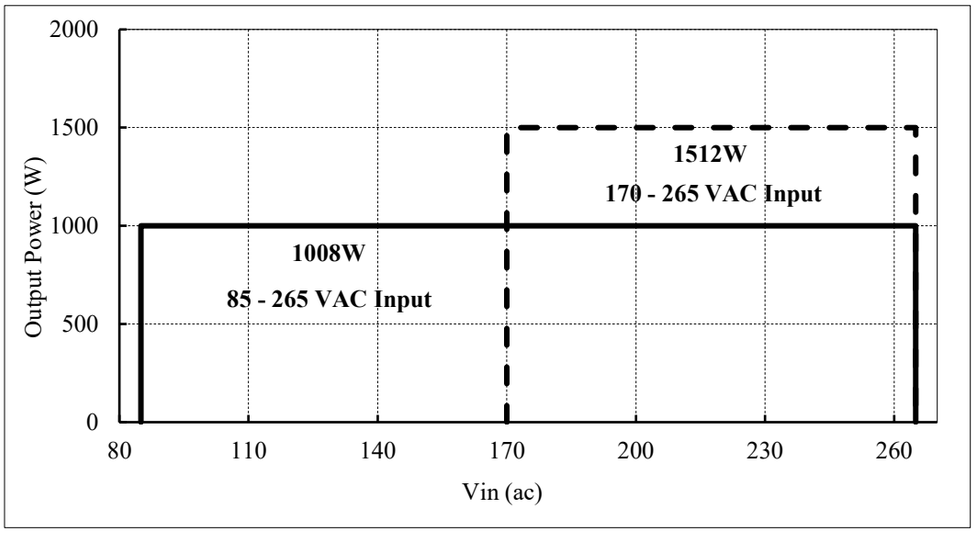
DERATING CURVE

CA906-01-02

Derating Curve: Tbp V.S Load



Derating Curve: Vin V.S Output Power



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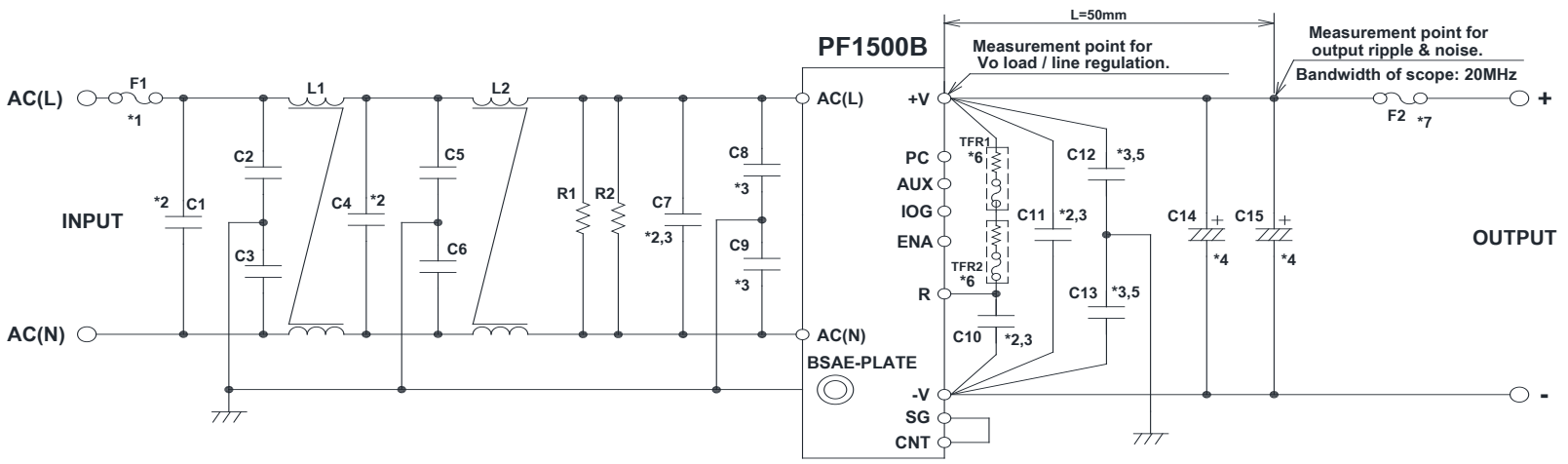
BASIC CONNECTION

CA906-01-03B



F1	AC250V 20A	C7	AC310V 1.0uF x2 (Film)	C15	450V 220uF x3 (Elec.)
F2	DC600V 6.3A	C8	AC250V 2200pF	R1	0.5W 470k Ω
C1	AC250V 1uF (Film)	C9	AC250V 2200pF	R2	0.5W 470k Ω
C2	No need	C10	450V 2.2uF (Film）	TFR1	6.8 Ω 139℃（Res., Thermal fuse)
C3	No need	C11	450V 2.2uF (Film）	TFR2	6.8 Ω 139℃（Res., Thermal fuse)
C4	AC250V 1uF (Film)	C12	AC250V 2200pF	L1	4.5mH,12A
C5	AC250V 2200pF	C13	AC250V 2200pF	L2	1.3mH,25A
C6	AC250V 2200pF	C14	450V 220uF *3 (Elec.)		

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

=NOTES=

*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)/pc.
*3. Put this (these) capacitor(s) near the terminal as close as possible.
*4. The maximum capacitance that can be used is less than 2700uF (Rated Capacitance).
Avoid the connection of capacitance which is more then above, else it will lead the module to damage.
*5. This capacitor is for EMC, determined by the characteristics of the leakage current, EMC (EMI, EMS) and output noise of the whole system.
*6. The inrush current at AC throw in can be suppressed by external resistor connected between the R and +V terminals.
*7. Use an external fuse of fast blow type for protecting the load.
*8. Refer to instruction manual for further details.