CUS75EB/A

CA833-01-01/75EBA-A

	ITEMS / MODEL			CUS75EB -5/A	CUS75EB -12/A	CUS75EB- 15/A	CUS75EB- 24/A	CUS75EB- 48/A
1	Nominal Output Voltage		V	5	12	15	24	48
2	Maximum Output Current		A	12	6.3	5.1	3.2	1.6
3	Maximum Output Power		W	60.0	75.6	76.5	76.8	76.8
4	Efficiency @ DC input (Typ.)	110/220 VDC (*1)	%	83 / 85	88 / 90	88 / 90	89 / 90	89 / 91
	Efficiency @ AC input (Typ.)	115/230 VAC (*1)	%	83 / 84	87 / 89	88 / 89	89 / 90	89 / 90
5	Input Voltage Range	(*2)	-	85 - 265 VAC (47-440Hz) or 88-370VDC				
6	Input Current @ DC input (Typ.)	110/220 VDC (*1)	A	0.8 / 0.4	1.0 / 0.5			
	Input Current @ AC input (Typ.)	115/230 VAC (*1)	A	1.2 / 0.8	1.5 / 0.9			
7	In-rush Current @ DC input (Typ.)	110/220 VDC (*1)(*3)	A	12 / 25 at Cold Start				
	In-rush Current @ AC input (Typ.)	115/230 VAC (*1)(*3)	A	20 / 40 at Cold Start				
8	Output Voltage Range		%	-10 / +10				
9	Maximum Ripple & Noise	(*1)(*4)(*5)	mV	120	120	150	150	200
10	Maximum Ripple & Noise (0%~35% Load)	(*4)(*5)	mV	240	280	280	280	480
11	Maximum Line Regulation	(*4)(*6)	mV	20	48	60	96	192
12	Maximum Load Regulation	(*4)(*7)	mV	40	96	120	192	384
13	No Load Power Consumption		W	< 0.5 @ 220VDC & 230VAC , Ta=25°C, Nominal Output Voltage				
14	Temperature Coefficient	(*4)	-	Less than 0.02% / °C				
15	Over Current Protection	(*8)	A	>12.6	> 6.6	> 5.4	> 3.4	> 1.7
16	Over Voltage Protection	(*9)	V	5.75 - 7.25	13.8 - 17.4	17.25 - 21.75	27.6 - 34.8	55.2 - 69.6
17	Hold-up time @ DC input (Typ.)	110/220 VDC (*1)	ms	7 / 40				
	Hold-up time @ AC input (Typ.)	115/230 VAC (*1)	ms	15 / 90				
18	Leakage Current	(*10)	-	0.75mA max @265VAC,60Hz				
19	Parallel Operation		-	No				
20	Series Operation		-	Possible				
21	Operating Temperature	(*11)	-	-20°C ~ +70°C, start up at -40°C (110VDC, start up time <5s)				
22	Operating Humidity		-	10 - 90%RH (No condensing)				
23	Storage Temperature		-	-40°C ~ +85°C				
24	Storage Humidity		-	10 - 90%RH (No condensing)				
25	Cooling		-	Convection Cooling				
26	Withstand Voltage		-	Input-FG : 2kVAC (5mA), Input-Output : 3kVAC (10mA) Output-FG : 500VAC (20mA) for 1min.				
27	Isolation Resistance		-	More than 100MΩ at 25°C,70%RH, Output - FG : 500VDC				
28	Vibration		-	At no operating, 10-500Hz (Sweep for 1min.) Maximum 19.6m/s^2 X,Y,Z 1 hour each				
29	Shock		-	Less than 196m/s2, MIL-STD-810F				
30	Safety		-	Designed to meet UL60950-1				
31	EMI	(*1)	-	Designed to meet EN55011-B, EN55032-B, FCC-Class B				
32	Immunity		-	Designed to meet IEC61000-4-2 (Level 4), IEC61000-4-3 (Level 3), IEC61000-4-4 (Level 4), IEC61000-4-5 (Level 3,4), IEC61000-4-6 (Level 3), IEC61000-4-8 (Level 4), IEC61000-4-11				
33	Harmonic Current		-	Designed to meet IEC61000-3-2,Class A				
34	Weight (Typ.)		g	260				
35	Size (L x W x H)		mm	125 x 63.1 x 36 (Refer to Outline Drawing)				

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

=NOTES=

*1. At 110VDC/220VDC & 115VAC/230VAC, Ta=25°C, nominal output voltage and maximum output power.

*2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100 ~ 240VAC (50-60Hz).
Output derating required when Vin(AC) is less than 115VAC, refer output derating curve for details.

*3. Not applicable for the in-rush current to noise filter for less than 0.2ms.

*4. Please refer to Fig. A for measurement of Vo, line and load regulation and ripple voltage.

*5. Ripple & noise are measured at 20MHz by using a 150mm twisted pair of load wires terminated with a 0.1uF and 100uF capacitor.

*6. 88~370VDC & 85~265VAC, constant load.

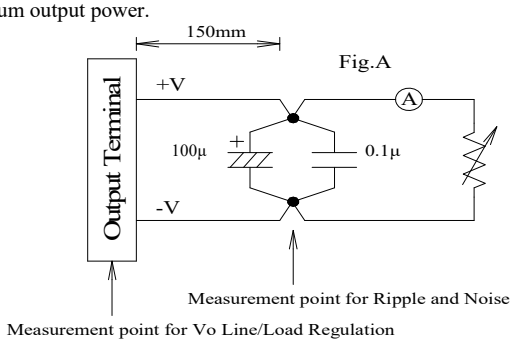
*7. No load - full load, constant input voltage.

*8. Hiccup with automatic recovery.
Avoid operating at over load or short circuit condition.

*9. OVP circuit shut down the output, manual reset (Re power on) to get output voltage.

*10. Measured by the each measuring method of UL, CSA, and EN (at 60Hz & DC), Ta=25°C.

*11. Refer to output derating curve for details of output derating versus input voltage, ambient temperature and mounting method .
- Load (%) is percent of maximum output power or maximum output current. Do not exceed its derating of maximum Load.
- Maximum load start up at -40°C is possible. However, it may not fulfill all the specifications.



CUS75EB/A

OUTPUT DERATING

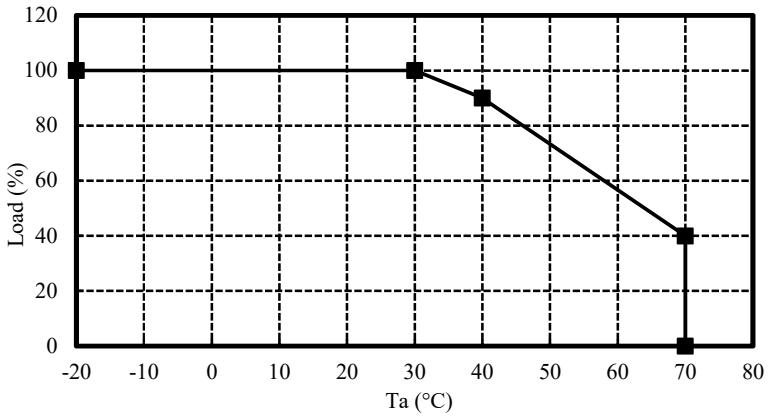
CA833-01-02/75EBA

OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

1. CUS75EB-5/A

Mounting: A, B, C, D, E

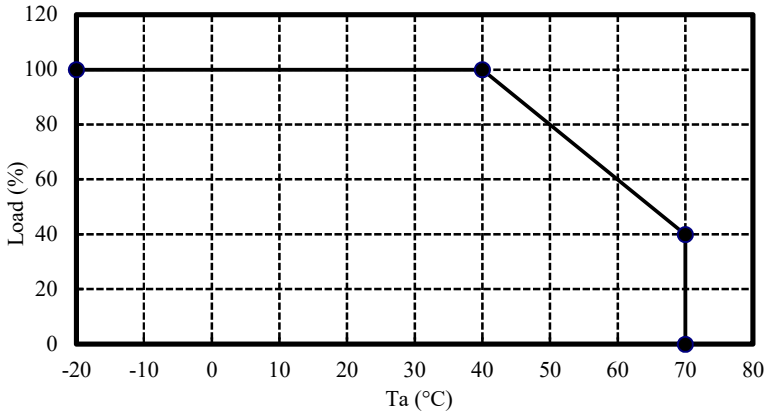
Ta (°C)	Load (%)
-20 - +30	100
40	90
70	40



2. CUS75EB-12/A, -15/A, -24/A, -48/A

Mounting: A, B, C, D, E

Ta (°C)	Load (%)
-20 - +40	100
70	40



CUS75EB/A

OUTPUT DERATING

CA833-01-03/75EBA

OUTPUT DERATING VERSUS INPUT VOLTAGE

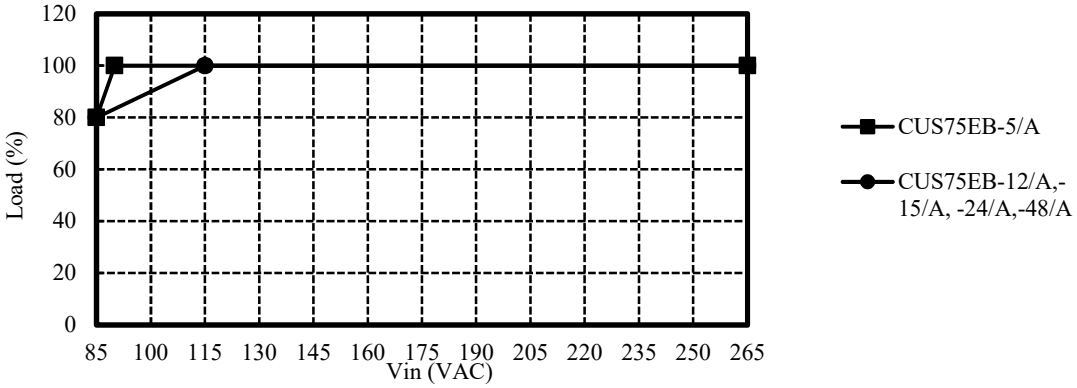
AC INPUT

CUS75EB-5/A
Mounting A,B,C,D,E

Input Voltage (VAC)	Load (%)
85	80
90~265	100

CUS75EB-12/A, -15/A, -24/A, -48/A
Mounting A,B,C,D,E

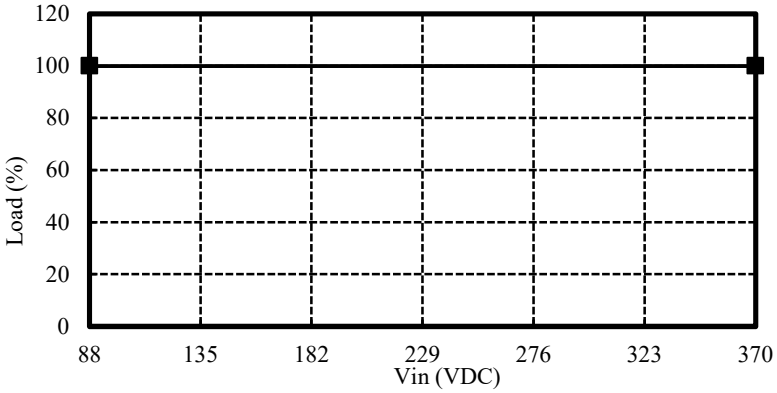
Input Voltage (VAC)	Load (%)
85	80
115~265	100



DC INPUT

CUS75EB-5/A,-12/A,-15/A,-24/A,-48/A

Input Voltage (VDC)	Load (%)
88~370	100



MOUNTING A (STANDARD MOUNTING) | MOUNTING B | MOUNTING C | MOUNTING D | MOUNTING E