CUD90EA

SPECIFICATIONS

CA834-01-01A

	ITEMS / MODEL			CUD90EA	
				CH1	CH2
1	Nominal Output Voltage		V	5.0	24.0
2	Minimum Output Current		A	0.0	0.0
3	Maximum Output Current		A	16.0	2.0
4	Typical Output Current		A	16.0	0.6
5	Maximum Output Power		W	80.0	48.0
6	Maximum Total Allowable Output Power		W	94.4	
7	Efficiency (Typ)		-	86% @ 110VDC, 87% @ 220VDC, typical output power	
8	Input Voltage Range	(*2)	-	85 - 300VDC	
9	Input Current (Typ)		-	1.2A @ 110VDC, 0.6A @ 220VDC, typical output power	
10	Inrush Current (Typ)	(*3)	-	10A @ 220VDC, Ta=25°C	
11	Output Voltage Accuracy @ Shipment	(*1)	V	-1% ～ +1%	-5% ～ +5%
12	Maximum Ripple &	(*1,4)	mV	100	240
13	Maximum Line Regulation	(*4,5)	mV	50	120
14	Maximum Load Regulation	(*4,6)	mV	100	240
15	Temperature Coefficient		-	Less than 0.03% / °C, typical output power	
16	Over Current Protection	(*7)	A	>16.8	>2.1
17	Over Voltage Protection	(*1,8)	V	5.5 ~ 7.0	26.4 ~ 30.0
18	Hold-up Time (Typ)		-	100ms @ 110VDC, 100% Load	
19	E-cap life	(*2)	-	More than 3 years (110VDC/220VDC, 60°C, 60% load, 24H/day, 365days/year)	
20	Operating Temperature	(*2)	-	-40～70℃ @ 100% load	
21	Operating Humidity		-	20 ~ 95%RH (No Dewdrop)	
22	Storage Temperature		-	-40 ~ +85°C	
23	Storage Humidity		-	20 ~ 90%RH (No Dewdrop)	
24	Cooling		-	Convection Cooling	
25	Withstand Voltage		-	I/P - O/P, O/P - FG, I/P - FG, CH1 - CH2: 2.0kVAC (10mA) for 1min	
26	Isolation Resistance		-	More than 300MΩ at 25°C & 70%RH, I/P - O/P,I/P - FG,O/P - FG: 500VDC	
27	Vibration		-	At no operating, 10 ~ 55Hz (Sweep for 1min), 19.6m/s^2 Constant, X,Y,Z 1hour each	
28	Shock (In package)		-	Less than 196.1m/s^2	
29	Safety		-	Designed to meet UL60950-1	
30	Immunity		-	Designed to meet IEC61000-4-2(Level 4), -3(Level 3), -4(Level 4), -5(Level 4), -6(Level 3), -8(Level 5), -9(Level 5), -10(Level 5), -11	
31	EMI		-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B	
32	Weight (Typ.)		-	400g	
33	Size (W x H x D)		mm	160 x 97 x 28 (Refer to Outline Drawing)	
34	Start Up & Shut Down Sequence		-	Two channels start up interval time less than 50ms, fall down interval time less than 500ms(60% Load)	

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

=NOTES=

*1. At 110/220VDC, Ta=25°C and typical output power.

*2. Standard mounting method, refer to Fig. A.

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

*4. Measure line & load regulation, ripple voltage at output terminal.
Ripple is measured at 20MHz and test method refer to Fig. B.

*5. 85 ~ 300VDC , Typical output current.

*6. No load - 100% load, constant input voltage.

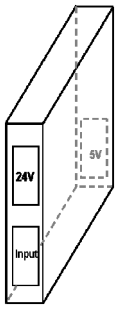
*7. Foldback current limit with automatic recovery.
When OCP occurs to one of the output channel, the other channel will keep working normally.

*8. CH1 (CH2) OVP will shutdown CH1 (CH2) output and manual reset,
CH2 (CH1) keep working normally.

*9. At 110VDC, Ta=25°C, nominal output voltage and typical output power.

Standard mounting method:

Fig. A



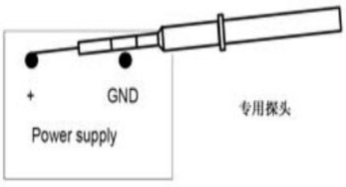


Fig. B

CUD90EA

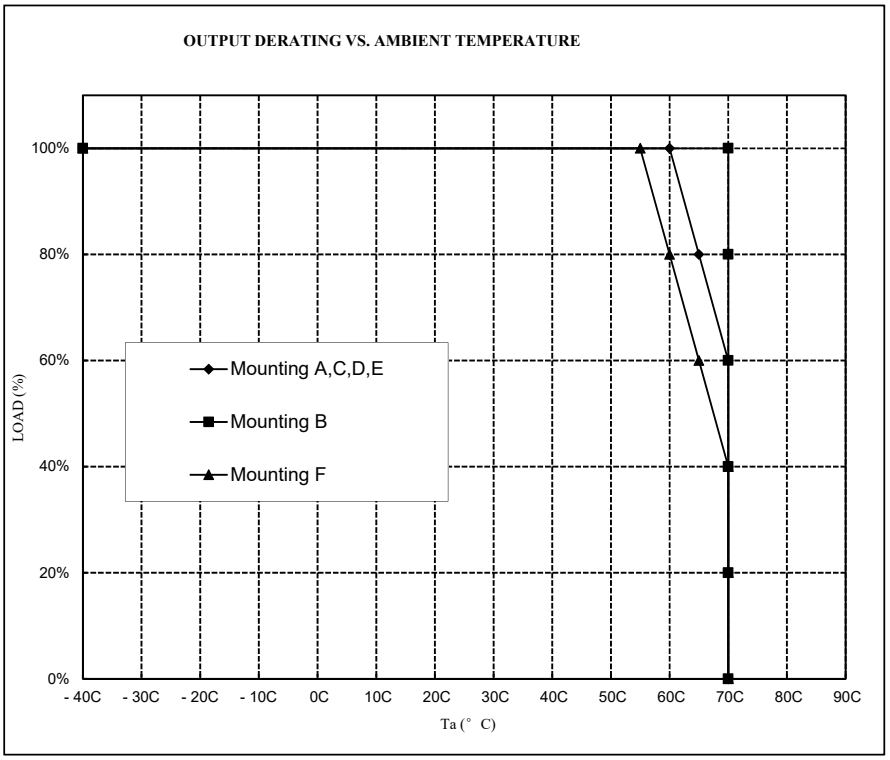
OUTPUT DERATING

CA834-01-02

*COOLING: CONVECTION COOLING

Ta (°C)	LOADING CONDITION(%)		
	Mounting A,C,D,E	Mounting B	Mounting F
- 40C	100%	100%	100%
55C	100%	100%	100%
60C	100%	100%	80%
65C	80%	100%	60%
70C	60%	100%	40%

*COOLING: CONVECTION COOLING



(MOUNTING A)	(MOUNTING B)	(MOUNTING C)	(MOUNTING D)	(MOUNTING E)	(MOUNTING F)