

CUD90EA-0512

SPECIFICATIONS

CA834-01-01/0512-A

MODEL		CUD90EA-0512		
ITEMS		CH1	CH2	
1	Nominal Output Voltage	V	5.0	12.0
2	Minimum Output Current	A	0.0	0.0
3	Maximum Output Current	A	16.0	4.0
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	88.0	
7	Efficiency (Typ)	-	83% @ 110VDC, 84% @ 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	120
13	Maximum Line Regulation (*4,5)	mV	50	60
14	Maximum Load Regulation (*4,6)	mV	100	120
15	Temperature Coefficient	-	Less than 0.03% / °C, typical output power	
16	Over Current Protection (*7)	A	>16.8	>4.2
17	Over Voltage Protection (*1,8)	V	5.5 ~ 7.0	13.0 ~ 16.8
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°C, @ 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

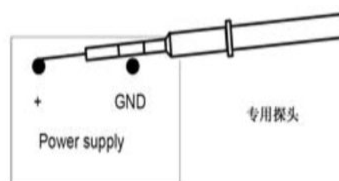
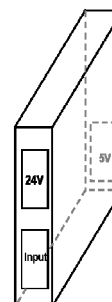


Fig. B

CUD90EA-0512

OUTPUT DERATING

CA834-01-02/0512

*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

