CUT35J/A

SPECIFICATIONS

CA873-01-01/A-B

	ITEMS / MODEL			CUT35J-522/A			CUT35J-5FF/A		
				CH1	CH2	CH3	CH1	CH2	CH3
1	Nominal Output Voltage		V	+5	+12	-12	+5	+15	-15
2	Minimum Output Current		A	0	0	0	0	0	0
3	Maximum Output Current		A	3.0	1.2	0.85	3.0	1.0	0.65
4	Typical Output Current		A	3.0	1.2	0.5	3.0	1.0	0.3
5	Maximum Output Power		W	35.4			34.5		
6	Maximum Output Power (CH1, CH2+CH3)		W	15.0	20.4		15.0	19.5	
7	Maximum Output Power (/CH)		W	15.0	14.4	10.2	15.0	15.0	9.75
8	Efficiency (Typ)	(*8)	-	81.0%			82.0%		
9	Input Voltage Range	(*2)	-	85 - 265VAC, 47 - 63Hz					
10	Input Current (Typ)	(*1)	-	1.0A / 0.5A					
11	Inrush Current (Typ)	(*3)	-	13A / 100VAC, 32A / 230VAC (cold start, Ta=25°C)					
12	Output Voltage Range	(*12)	-	V1: +5%, -0% max; V2, V3: Fixed (± 5% max)					
13	Maximum Ripple & Noise (0<Ta<60°C, 35-100% Load)	(*4,11)	mV	120	150	150	120	150	150
	(-20<Ta<0°C, 35-100% Load)	(*4,11)	mV	160	180	180	160	180	180
	(-20<Ta<60°C, 0-35% Load)	(*4,11)	mV	300	400	400	300	400	400
14	Maximum Line Regulation	(*5,11)	mV	50	240	240	50	300	300
15	Maximum Load Regulation	(*6,11)	mV	100	600	600	100	750	750
16	Temperature Coefficient		-	V1 less than 0.02%/°C, V2, V3 less than 0.03%/°C at -20 - +60°C					
17	Over Current Protection	(*7)	-	More than 105%					
18	Over Voltage Protection		V	5.7 - 7.0	13.8 - 16.8	-	5.7 - 7.0	17.2 - 21.0	-
19	Hold Up Time (Typ)	(*1)	-	16ms / 90ms					
20	Leakage Current	(*9)	-	Less than 0.3mA at 50Hz, 265VAC / 0.5mA at 60Hz, 265VAC 0.11mA(Typ) at 60Hz, 115VAC / 0.22mA(Typ) at 60Hz, 230VAC					
21	Operating Temperature	(*10)	-	-20 - +60°C					
22	Operating Humidity		-	5 - 95%RH (No dewdrop)					
23	Storage Temperature		-	-30 - +85°C					
24	Storage Humidity		-	5 - 95%RH (No dewdrop)					
25	Cooling		-	Convection cooling					
26	EMI		-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B					
27	Withstand Voltage		-	I/P-O/P: 3kVAC(10mA), I/P-FG: 2.0kVAC(10mA), O/P-FG: 500VAC(20mA), CH1-CH2/CH3: 500VAC(20mA) for 1min.					
28	Isolation Resistance		-	More than 100MΩ at Ta=25°C and 70%RH, Output - FG: 500VDC					
29	Vibration		-	10 - 55Hz Amplitude (sweep 1min) Less than 19.6m/s^2 X, Y, Z 1Hr each					
30	Shock (In package)		-	Less than 196.1m/s^2					
31	Safety	(*13)	-	Approved by IEC/EN62368-1, UL62368-1, CSA62368-1, Approved by IEC/EN60601-1, ES60601-1, CSA-C22.2 No.60601-1					
32	Immunity		-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11					
33	Weight (Typ)		g	180					
34	Size (W.H.D.)		mm	63.1 x 36 x 125 (Refer to Outline Drawing)					
35	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)					

NOTES:

* 1 : At 100/200VAC, Ta=25°C and typical output current.
* 2 : For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC(50/60Hz).
* 3 : Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
* 4 : Measure with JEITA probe, Bandwidth of scope :20MHz.
* 5 : 85 - 265VAC, typical output current.
* 6 : No load-typical output current, constant input voltage.
* 7 : Current limit and Hiccup with automatic recovery.
  Not operate at over load or dead short condition.
* 8 : At 200VAC, nominal output voltage and typical output current.
* 9: Measured by the each measuring method of UL, CSA and EN.
*10: Ratings - Derating at standard mounting (Fig. B).
  - Load (%) is percent of maximum output power or typical output current, whichever is greater.
  - As for each mountings, refer to derating curve (CA873-01-02/A-_).
  - When ambient temperature less is than -10°C, refer to derating curve (CA873-01-03/A-_).
*11: Please refer to Fig. A for measurement determination of Vo, line & load regulation and output ripple voltage.
*12: No load-typical output current.
*13: As for EN60601-1, ES60601-1 and CSA-C22.2 No.60601-1, 3rd Edition and MOOP level.

Fig. A

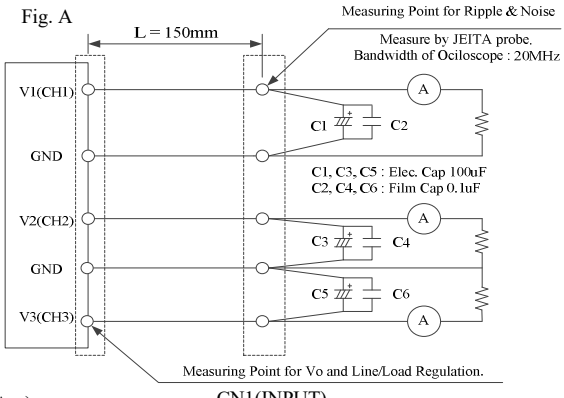
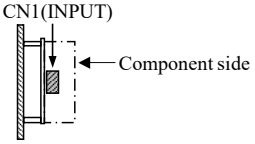


Fig. B



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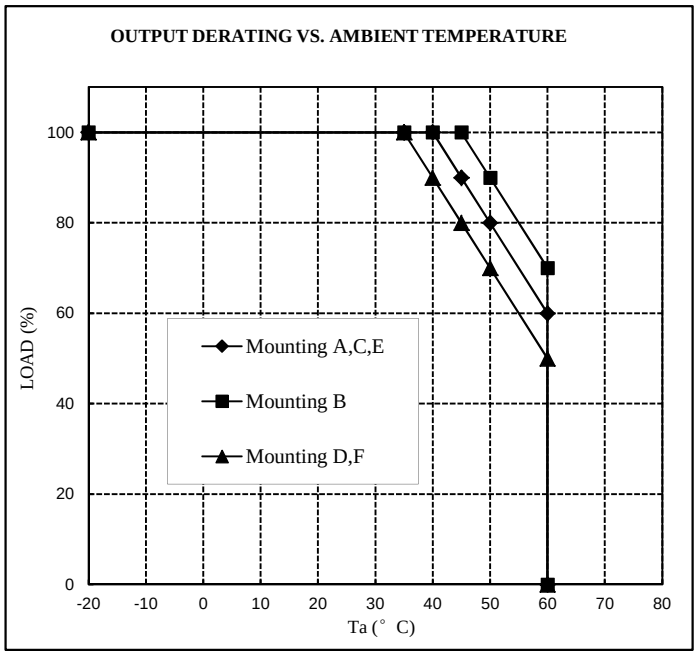
OUTPUT DERATING

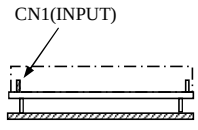
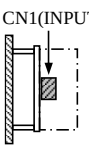
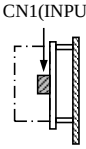
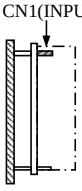
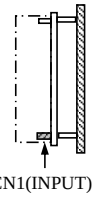
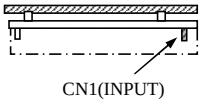
CA873-01-02/A

*COOLING: CONVECTION COOLING

Ta (°C)	LOADING CONDITION(%)		
	Mounting A,C,E	Mounting B	Mounting D,F
- 20	100	100	100
35	100	100	100
40	100	100	90
45	90	100	80
50	80	90	70
60	60	70	50

*COOLING: CONVECTION COOLING



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

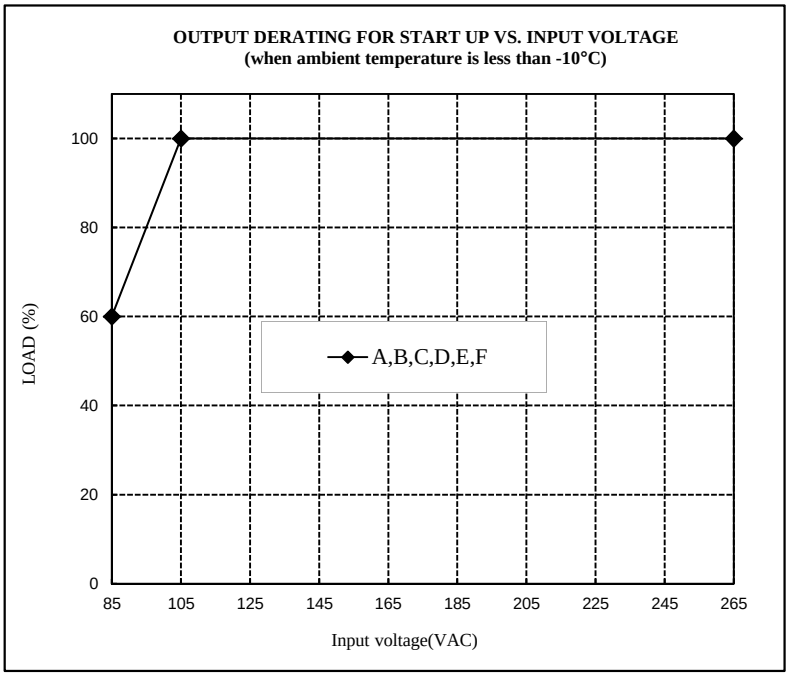
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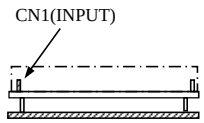
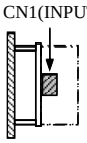
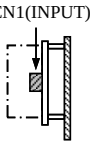
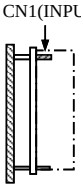
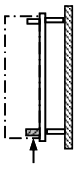
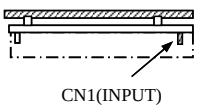
OUTPUT DERATING

CA873-01-03/A

Output derating for start up when ambient temperature is less than -10°C

INPUT VOLTAGE	LOADING CONDITION(%)
	All Mounting (A,B,C,D,E,F)
85VAC	60
105-265VAC	100



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

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