CUS20E

SPECIFICATIONS

CA860-01-01

	ITEMS / MODEL			CUS20E-5
1	Nominal Output Voltage		V	5.1
2	Maximum Output Current		A	4.0
3	Maximum Output Power		W	20.4
4	Efficiency (Typ)	110/220VDC	%	80 / 83 @60% Load
5	Input Voltage Range		-	85 - 300VDC
6	Input Current (Typ)	110/220VDC (*1)	A	0.24 / 0.15
7	In-rush Current (Typ)	110/220VDC (*1)(*2)	-	5A / 10A
8	Adjustable Output Voltage Range		V	Fixed
9	Maximum Ripple & Noise	Ta=25°C (*3)(*4)	mV	50
10	Maximum Line Regulation	(*3)(*5)	mV	20
11	Maximum Load Regulation	(*3)(*6)	mV	40
12	Temperature Coefficient	(*3)	-	Less than 0.02% / °C
13	Over Current Protection	(*7)	A	>105%
14	Over Voltage Protection	(*8)	V	5.75 - 6.50
15	Hold-up Time (Typ)	110/220VDC	-	100ms / 400ms @60% Load
16	Leakage Current		-	-
18	Remote Control		-	-
19	Parallel Operation		-	-
20	Operating Temperature	(*9)	-	Convection : -25 - 70°C (-25 - 60°C : 100% ,70°C: 80% mounting B)
21	Operating Humidity		-	5 - 95%RH (No Condensing)
22	Storage Temperature		-	-40 - +85°C
23	Storage Humidity		-	5 - 95%RH (No Condensing)
24	Cooling		-	Convection
25	Withstand Voltage		-	Input - FG : 2kVAC (5mA), Input - Output : 3kVAC (10mA) Output - FG : 500VAC (10mA) for 1min
26	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC
27	Vibration		-	GB/T 11287-2000 Level 2 (19.6m/s^2(2G) x120%, (10-150Hz),Frequency sweep cycle number:20,The cycle time of each sweep:8min,X, Y, Z axis,total time:20*8*3=480min)
28	Shock		-	GB/T 14537-93 Level 2 (294m/s^2(30G) x120%,11ms,3times)
29	Safety		-	Designed to meet GB/T 14598.27-2008
30	EMI		-	Designed to meet GB/T 14598.16-2002
31	Immunity		-	Designed to meet GB/T 14598.9(level 3),-10(level 4),-11,-13, -14(Level 4); GB/T 17626.5(Level 4) -6(Level 3), -8(Level 4), -9(Level 4), -10(Level 4)
32	Weight (Typ)		g	100
33	Size (L x W x H)		mm	105 x 50 x 28 (Refer to Outline Drawing)

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

=NOTES=

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

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

*3. Measure Vo, line & load regulation and ripple voltage at output connector.

*4. Ripple is measured at 20MHz and test method refer to Fig. A.

*5. 85 - 300VDC, constant load.

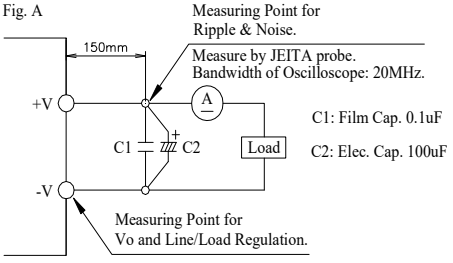
*6. No load-Full load, constant input voltage.

*7. Hiccup with automatic recovery.
Avoid to operate at over load or short circuit condition.

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

*9. Refer to Output Derating Curve (CA860-01-02_) 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.

Fig. A



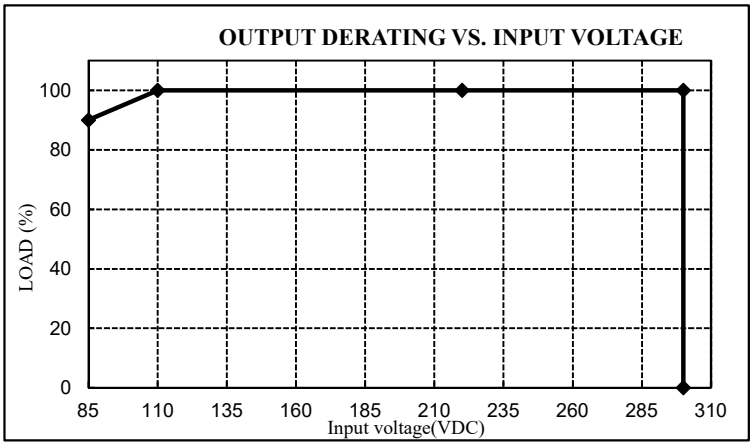
CUS20E

OUTPUT DERATING

CA860-01-02

1.OUTPUT DERATING VS. INPUT VOLTAGE

Input voltage	LOADING CONDITION(%)
85VDC	90
110-300VDC	100

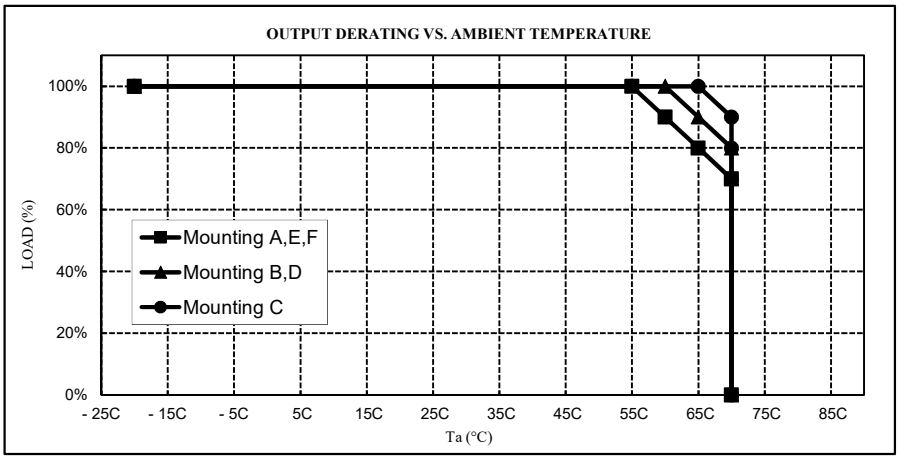


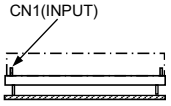
2.OUTPUT DERATING VS. AMBIENT TEMPERATURE

*COOLING: CONVECTION COOLING

Ta (°C)	LOADING CONDITION(%)		
	Mounting A,E,F	Mounting B,D	Mounting C
-25	100	100	100
55	100	100	100
60	90	100	100
65	80	90	100
70	70	80	90

*COOLING: CONVECTION COOLING



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