

CS150 SPECIFICATIONS

DWG No. CA784-01-01A

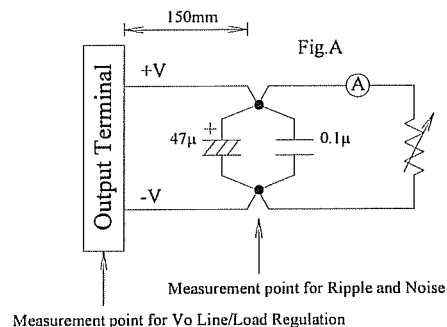
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ITEMS	MODEL		CS150-5	CS150-12	CS150-24	REV.
1	Nominal Output Voltage	V	5	12	24	
2	Maximum Output Current (Peak Output Current) (* 1)	A	26(30)	12.5	6.5	
3	Maximum Output Power (Peak Output Power) (* 1)	W	130(150)	150	156	
4	Efficiency (Typ) (230VAC) (* 3)	%	82	86	88	
5	Input Voltage Range (* 2)	—	176~ 265VAC (47-63Hz) or 240VDC~370VDC			
6	Input Current (Typ) (230VAC) (* 3)	A	2.0			
7	Inrush Current (Typ) (* 4)	—	45A at 230VAC, Ta=25°C, Cold Start			
8	Output Voltage Range	V	4.5~6.0	9.6~13.2	20~28.8	
9	Ripple and Noise (230VAC) (* 3, 5)	mV	100	100	150	
10	Line Regulation (* 5, 6)	mV	20	48	96	
11	Load Regulation (* 5, 7)	mV	40	96	120	
12	Temperature Coefficient	—	Less than 0.02%/°C			
13	Over Current Protection (* 8)	A	31.5~	13.2~	6.8~	
14	Over Voltage Protection (* 9)	V	6.25~7.5	13.8~16.8	30.0~34.8	
15	Hold-Up Time (Typ) (230VAC) (* 3)	—	20ms			
16	Leakage current (* 10)	—	0.5mA(Typ) at 230VAC, 0.75mA max @ 265VAC,60Hz			
17	Series Operation	—	Possible			
18	Operating Temperature (* 11)	—	- 20 ~ + 70 °C (Refer to Output Derating Curve)			
19	Operating Humidity	—	30 ~ 90 %RH (No dewdrop)			
20	Storage Temperature	—	- 30 ~ +85°C			
21	Storage Humidity	—	10 ~ 95%RH (No dewdrop)			
22	Cooling	—	Convection cooling			
23	Withstand Voltage	—	Input - Output : 3.0kVAC (20mA), Input - FG : 2.0kVAC (20mA) Output - FG : 500VAC (100mA) for 1min.			
24	Isolation Resistance	—	More than 100MΩ at Ta=25°C and 70%RH, Output - FG : 500VDC			
25	Vibration	—	At no operating, 10 - 55Hz (sweep for 1min) 19.6m/s ² Constant, X, Y, Z 1hour each			
26	Safety	—	Built to meet EN60950-1, GB4943			A
27	EMI (* 3)	—	Built to meet FCC-Class B, EN55011/EN55022-B			
28	Immunity (* 3)	—	Built to meet EN61000-4-2,-3,-4,-5,-6,-8,-11			
29	Weight (Typ)	g	600			
30	Dimension	mm	159 x 97 x 40 (Refer to Outline Drawing)			

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

= NOTES=

- * 1: (): Peak Output Current is possible, operating period at Peak Output Current is less than 10 sec, duty less than 35% .
Average output power and current is less than Maximum Output Power and Maximum Output Current.
- * 2: For cases where conformance to various safety specs (EN,CQC) are required, to be described as 200 - 240VAC, 50 / 60Hz on name plate.
280VAC (max) input operation is possible.
- * 3: At maximum output power, nominal input voltage, Ta = 25°C.
- * 4: Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- * 5: Please refer to Fig A for measurement of line & load regulation, ripple and noise voltage.
Ripple & noise are measured at 20MHz by using a twisted pair of load wires terminated with a 0.1uF and 47uF capacitor.
- * 6: 176 - 265VAC, constant load.
- * 7: No load - Full load(Maximum power), constant input voltage.
- * 8: Hiccup current limit with automatic recovery.
Avoid to operate at overload or dead short for more than 30seconds.
- * 9: OVP circuit will shutdown output, manual reset (Re power on).
- *10: Measured by each measuring method of EN,CQC.
- *11: Refer to Output Derating Curve (next page) for details of output derating
versus input voltage, ambient temperature and mounting method .
100% load start up at -30°C is possible. However, it may not fulfil all the specifications.



DWG:	Photo	CHK:	Kevin He
APPD:	Kevin He	DATE:	1. AUG. 2011

TDK-Lambda

CS150 OUTPUT DERATING

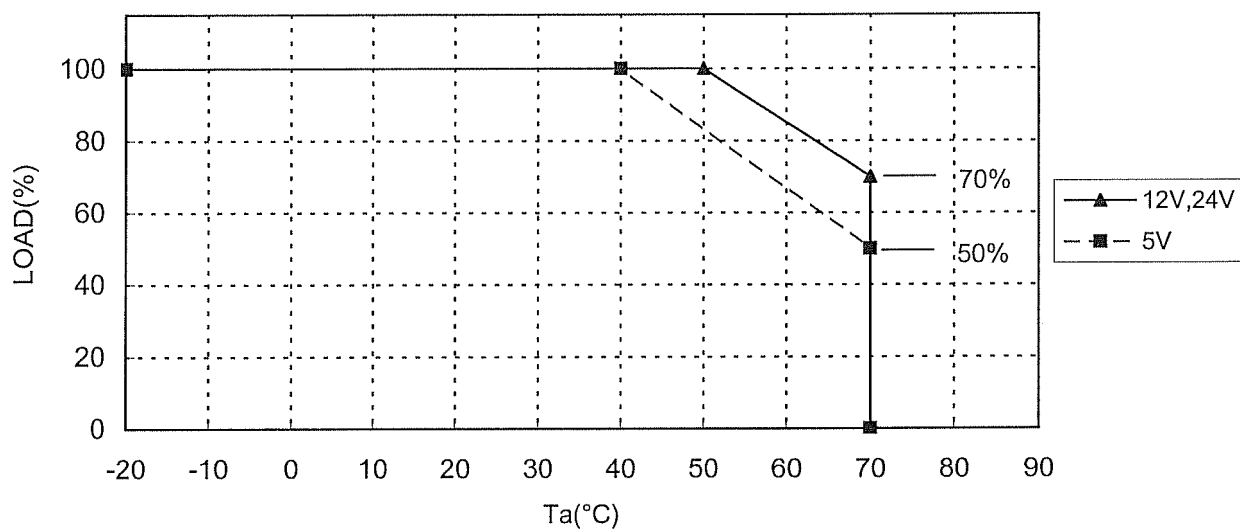
DWG No.

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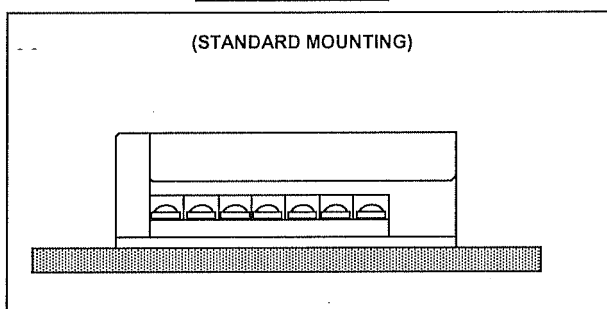
Ta(°C)	LOAD(%)
	Mounting A,B
-20~40	100%
50	100% (5V: 83.3%, 108W)
70	70% (5V: 50%, 65W)

CS150 OUTPUT DERATING VS Ta CURVE

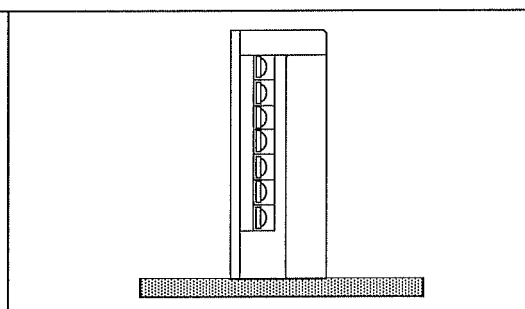


MOUNTING A

(STANDARD MOUNTING)



MOUNTING B



DWG	MINI P&G
CHK	Kevin He
APPD	
DATE	26 APR '11