

CS35 SPECIFICATIONS

DWG No. CA794-01-01

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Verification of the latest version shall be conducted by PLM system.

ITEMS		MODEL	CS35-5	CS35-12	CS35-24	REV.
1	Nominal Output Voltage	V	5	12	24	
2	Maximum Output Current	A	7	3	1.5	
3	Maximum Output Power	W	35	36	36	
4	Efficiency (Typ)	(115VAC) (*1) (230VAC) (*1)	78 80	83 85	87 88	
5	Input Voltage Range	(*3, 11)	—	85~ 265VAC (47-63Hz) or 120~370VDC		
6	Input Current (Typ)	(*1)	A	0.7 / 0.4		
7	Inrush Current (Typ)	(*4)	—	45A at 230VAC, Ta=25°C, Cold Start		
8	No load power consumption	(230VAC) (*2)	W	< 0.3		
9	Output Voltage Range	V	4.5~6.0	9.6~13.2	20~28.8	
10	Ripple and Noise	(*1, 5)	mV	80 120	150	
11	Line Regulation	(*5, 6)	mV	20 48	96	
12	Load Regulation	(*5, 7)	mV	40 96	192	
13	Temperature Coefficient	—	—	Less than 0.02%/°C		
14	Over Current Protection	(*8)	A	7.4~	3.2~	1.6~
15	Over Voltage Protection	(*9)	V	6.25~7.5	13.8~16.8	30.0~34.8
16	Hold-Up Time (Typ)	(115VAC) (*1) (230VAC) (*1)	—	10ms 50ms		
17	Leakage current	(*10)	—	0.5mA(Typ) at 230VAC, 0.75mA max @ 265VAC, 60Hz		
18	Series Operation	—	—	Possible		
19	Operating Temperature	(*11)	—	-20 ~ +70 °C (Refer to Output Derating Curve)		
20	Operating Humidity	—	—	30 ~ 90 %RH (No dewdrop)		
21	Storage Temperature	—	—	-30 ~ +85°C		
22	Storage Humidity	—	—	10 ~ 95%RH (No dewdrop)		
23	Cooling	—	—	Convection cooling		
24	Withstand Voltage	—	—	Input - Output : 3.0kVAC (20mA), Input - FG : 2.0kVAC (20mA) Output - FG : 500VAC (100mA) for 1min.		
25	Isolation Resistance	—	—	Input - Output, Input - FG and Output - FG : More than 100MΩ (500VDC) at Ta=25°C and 70%RH		
26	Vibration	—	—	At no operating, 10 - 55Hz (sweep for 1min) 19.6m/s ² Constant, X, Y, Z 1hour each		
27	Safety	—	—	Built to meet UL60950-1, CSA60950-1, EN60950-1, GB4943		
28	EMI	(*1)	—	Built to meet FCC-Class B, EN55011/EN55022-B		
29	Immunity	(*1)	—	Built to meet EN61000-4-2, -3, -4, -5, -6, -8, -11		
30	Weight (Typ)	g	300g			
31	Dimension	mm	36 x 97 x 80 (Refer to Outline Drawing)			

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

= NOTES=

* 1 : At maximum output power, nominal input voltage(115VAC / 230VAC), Ta = 25°C.

* 2 : At 230VAC Io=0% , Ta = 25°C.

* 3 : For cases where conformance to various safety specs (EN, CQC) are required, to be described as 100 - 240VAC, 50 / 60Hz on name plate.

280VAC (max) input operation is possible.

* 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 : 85 - 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).

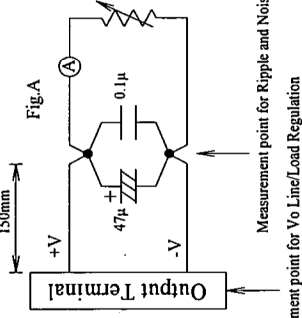
* 10: Measured by each measuring method of EN, CQC.

* 11: Refer to Output Derating Curve (next page) for details of output derating

versus input voltage, ambient temperature and mounting method.

90% load start up at Vin>=100Vat -30°C is possible.

However, it may not fulfil all the specifications.



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TDK-Lambda