

Features

- ★ In-Out Isolation Voltage 4000 VAC
- ★ DIP Package
- ★ Temperature Range:-40°C to +85°C
- ★ UL94V-0 Inflaming retarding package
- ★ MTBF>1million hours(25°C)
- ★ Short-circuit protection
- ★ Output Short Circuit Protection



Applications

The CHAB_D-10W Series are these AC-DC converters, you can reduce the design point of failure and save the development of micro power supply's manpower, material and time costs, also better ensure product quality stability, protect safety and reliability of the end of products. These products apply to where:

1. Input and output isolation noise is required.
2. Regulated and low ripple noise is required.

Such as: tele-communications etc, industrial control.

Model Detail List Specification

Model Number	Input Voltage	Output Voltage	Output Current (mA)		Efficiency	Max. Capacitive Load(μF)
			Min.	Max.		
CHAB05D-10W	30~305VAC 30~430VDC	5.0V	200	2000	72%	2000
CHAB12D-10W		12.0V	83	833	78%	
CHAB15D-10W		15.0V	66	667	81%	
CHAB24D-10W		24.0V	41	417	82%	

Environmental Specifications

Item	Test Conditions	Min.	Typ.	Max.	Unit
Storage Humidity	Non condensing			95	%
Temp. rise at full load			25	40	°C
Operating Temperature		-40		85	
Storage Temperature	Power derating (above 85°C)	-55		125	
Soldering Temperature	1.5mm from case for 10 seconds			300	
Isolation Voltage	Tested for 1 minute and leakage current less than 1 mA	4000			VAC
Switching Frequency	Full load, nominal input		100		KHz
MTBF	MIL-HDBK-217F@25°C	1000			K hours
Isolation Resistance	Test at 500VDC	1000			MΩ
Weight			35		g
Cooling		Free air convection			

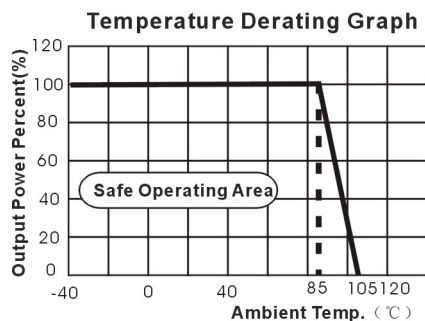
Input Specification

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage Range	AC input	30		305	VAC
	DC input	30		430	VDC
Input Frequency		47	--	63	Hz
Input Current	24VDC/24VAC	--	--	0.56	A
	115VAC	--	--	0.35	
	230VAC	--	--	0.25	
	115VAC	--	25	--	
Inrush Current	230VAC	--	40	--	
Leakage Current	277VAC/50Hz	0.1mA RMS Max.			
Recommended External Input Fuse		2A/300V, slow-blow, required			
Hot Plug		Unavailable			

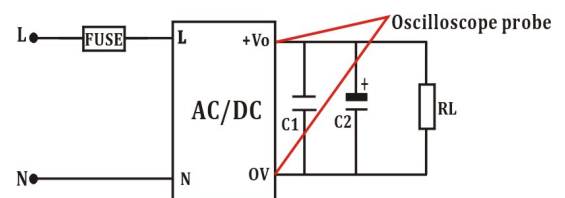
Output Specification

Item	Test Conditions	Min.	Typ.	Max.	Unit
Output Power		1		10	W
Line Voltage Regulation	For Vin change of $\pm 1\%$			± 0.5	%
Load regulation	10% to 100% load			0.5	
Ripple	20MHz Bandwidth		50		mVp-p
Noise			75		
Temperature Drift	100% full load			± 0.03	$\%/^{\circ}\text{C}$
Isolation Capacitance			300		pF
Short Circuit Protection		Continuous, automatic recovery			

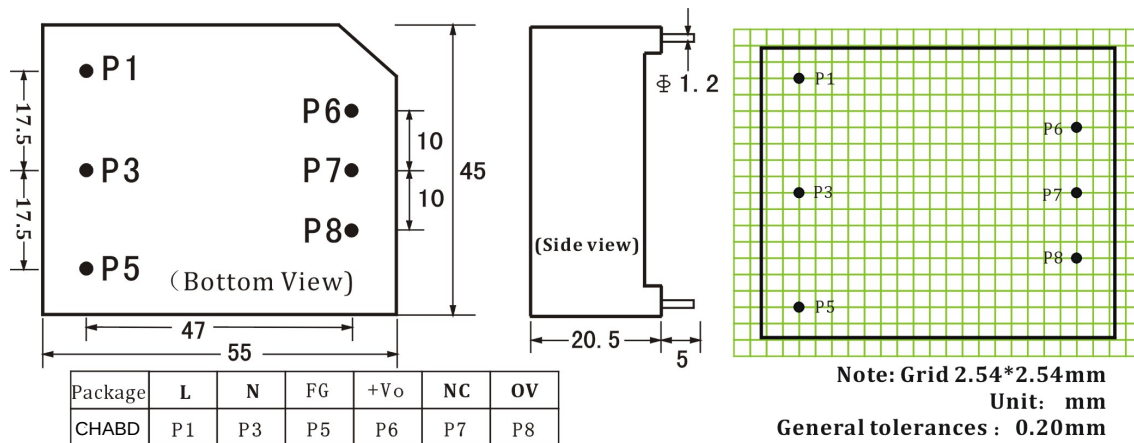
Temperature Derating Graph



Model test circuit



Mechanical Dimensions & Recommended Footprint



EMC Recommended Circuit

