FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 85%
- Protection: Short Circuit/Overload
- Fully Encapsulated Plastic Case
- RoHS Compliant
- UL Recognized

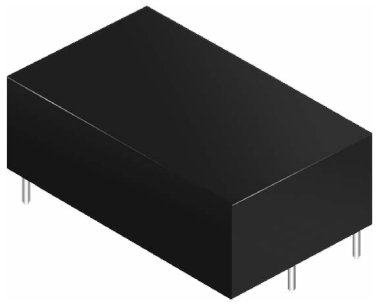
Specifications typical at TA=25°C nominal input voltage and rated output current unless otherwise specified

Part Number	Output Wattage	Output Voltage	Output Current	Ripple & Noise	Efficiency
	(W)	(V)	(mA)	(mV) Max (Note)	(% TYP)
AC10D-S03	6.6	3.3	2000	150	72
AC10D-S05	10	5	2000	150	75
AC10D-S12	12	12	1000	150	82
AC10D-S15	12	15	800	150	82
AC10D-S24	12	24	500	150	85

Note:
Ripple & noise is measured by using 20 MHz bandwidth, measured with 47uf paralleled with a high-frequency 0.47uf capacitor across each output by full load.

ADAM TECH

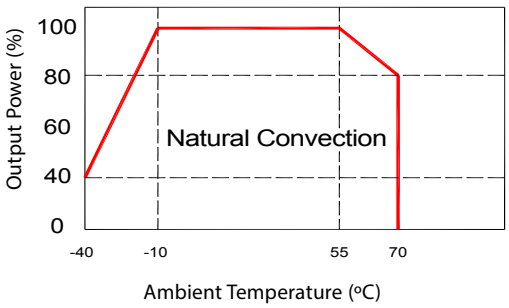
AC-DC Converter
AC10D SERIES
10~12Watt
4KV Isolated
Single Output
Module



Input Specifications

Parameters	Conditions		Min	Typ	Max	Units
Rated Input Voltage	Vo, Io nom			100~240		Vac
Voltage Range	Vo, Io nom	AC in	90		264	Vac
		DC in	120		370	Vdc
Line Frequency	Vi nom, Io nom		47	50/60	63	Hz
Inrush Current	Io nom	Vi:115VAC			10	A
		Vi:230VAC			20	A
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)					

Temperature Derating Graph



Output Specifications

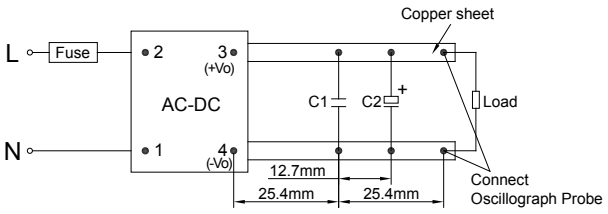
Parameters	Conditions		Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom	3.3….5V Models			±3	%
		10….48V Models			±2	%
Minimum Load	Vi nom		0			%
Line Regulation	Io nom, Vi min…Vi max			±0.2		%
Load Regulation	Vi nom, Io min…Io nom	3.3V Models		±1.0		%
		5….48V Models		±0.5		%
Transient Recovery Time	Vi nom, Io nom = ← → 0.5 Io nom			1000		uS
Protection	Over load		Above 110% rated output power			
			Protection type: Recovers automatically after fault condition is removed			
	Short circuit		Recovers automatically after fault condition is removed			

Part Number

AC10D - S 03
A B C

A: Series
B: Single Output
C: Output Voltage

Parallel Line Measurements

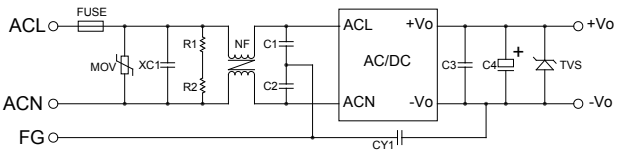


C1: Ceramic capacitor,1uF; C2: Electrolytic capacitor,10uF

General Specifications

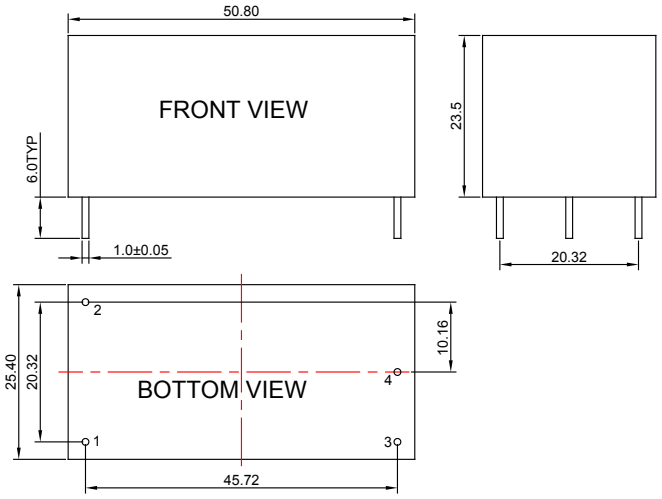
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output		4KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-40		+70	ºC
Storage Temperature	Non Operational	-40		+105	ºC
Relative Humidity	Vi nom, Io nom			95	% RH
Safety Standards	Design refer to UL60950-1,IEC60950-1				
EMI Conduction & Radiation	EN55022, CLASS B (See Fig. 1 for recommended circuit)				
EMS Immunity	EN61000 (See Fig. 1 for recommended circuit)				
Dimensions	L50.8 x W25.4 x H23.5 mm				
Cooling	Free air convection				

EMC Solution-Recommended Circuit



NOTE:
MOV:14D-561K
XC1:0.47uF/275V,X2
R1\R2:750K,1206
NF:UU9.8,20mH
C1\C2:2200pF/250V,Y2

Markings and Dimensions



UNIT: mm
Unless otherwise specified, all tolerances are ±0.50.

PIN Connection

PIN	1	2	3	4
GA10D	ACN	ACL	+Vo	-Vo