

FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 82%
- Protection: Short Circuit/Overload/Overvoltage
- Fully Encapsulated Plastic Case
- Internal Input Filter
- RoHS Compliant
- UL Recognized

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

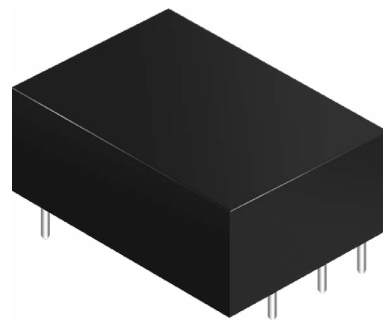
Part Number	Output Wattage (W)	Output Voltage (V)	Output Current (mA)	Ripple & Noise (mV) Max (Note)	Efficiency (% TYP)
AC010-D05	10	±5	±1000	100	75
AC010-D12	12	±12	±500	150	75
AC010-D15	12	±15	±400	150	75
AC010-D24	12	±24	±250	240	77
AC010-S03	10	3.3	3000	100	74
AC010-S05	10	5	2000	100	76
AC010-S12	12	12	1000	150	80
AC010-S15	12	15	800	150	80
AC010-S24	12	24	500	240	80

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.

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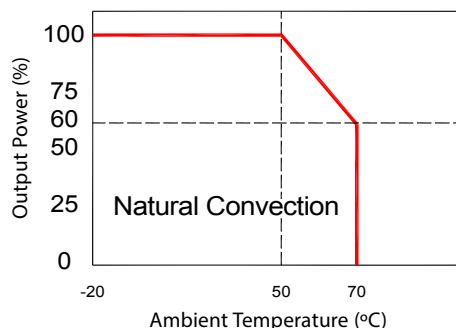
AC-DC Converter
AC010 SERIES
10Watt
3KV Isolated
Single & Dual Output
Module



Input Specifications

Parameters	Conditions		Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240			Vac
Voltage Range	Vo, lo nom	AC in	90		264	Vac
		DC in	120		370	Vdc
Line Frequency	Vi nom, lo nom		47	50/60	63	Hz
Inrush Current	lo 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 (Single Output)			±3	%
	12...48V Models			±2	%
	Dual Output			±5	%
Minimum Load	Vi nom, Single Output Models	0			%
	Dual Output Models (each output)	20			%
Line Regulation	Io nom, Vi min...Vi max		±1		%
Load Regulation	Io min~ Single Output Models		±2		%
	Io nom Dual Output Models		±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			
	Over Voltage	120%-150% rated output Voltage Protection type: Zener diode clamp			

Note:

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

General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-20		+70	°C
Derating	Vi nom, Io nom +51 to 71°C			2	%/°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, Io nom			95	% RH
Safety Standards	EN60950-1 approved				
EMI Conduction & Radiation	Compliance to EN55022				
EMS Immunity	Compliance to EN55024				
Dimensions	L63.50x W44.45 x H19.05mm, L2.5x W1.75 x H0.75 inches				
Cooling	Free air convection				

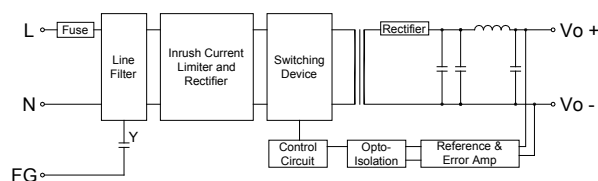
Part Number

AC010 - S 03
A B C

A: Series
B: Single (S) / Dual Output (D)
C: Output Voltage

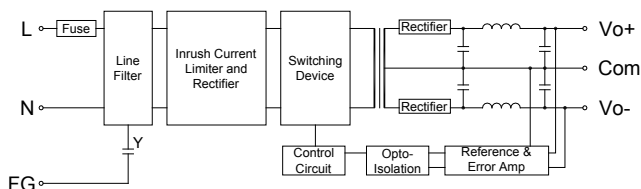
Circuit Schematic (1)

Single Output



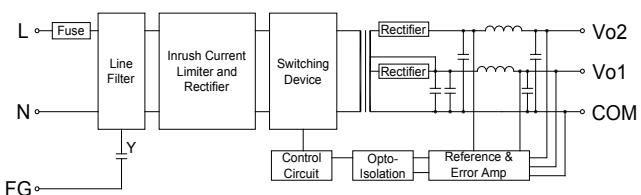
Circuit Schematic (2)

Dual Output

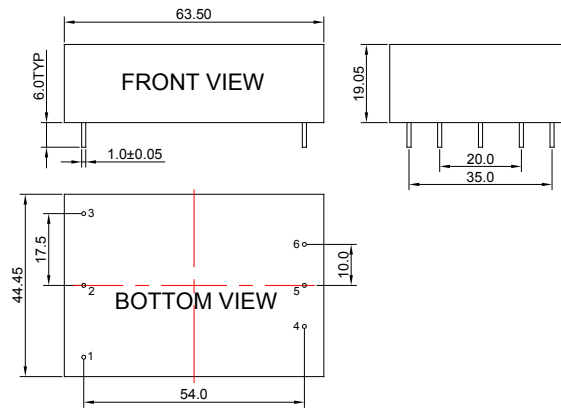


Circuit Schematic (3)

Dual Output



Markings and Dimensions



UNIT: mm

Unless otherwise specified, all tolerances are ± 0.50 .

PIN Connection

PIN	1	2	3	4	5	6
Single	FG	ACN	ACL	-Vo	NO PIN	+Vo
Dual	FG	ACN	ACL	-Vo	COM	+Vo
Dual	FG	ACN	ACL	-Vo2	COM	+Vo1

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