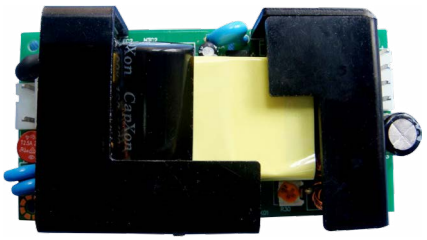
FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 88%
- Protection: Short Circuit/Overload/Overvoltage
- Internal Input Filter
- RoHS Compliant
- UL Recognized

AC-DC Converter

AD60A SERIES

60Watt
3KVac Isolated
Single Output
Open Frame



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)
AD60A-S12	60	12	5000	150	85
AD60A-S24	60	24	2500	240	87

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.

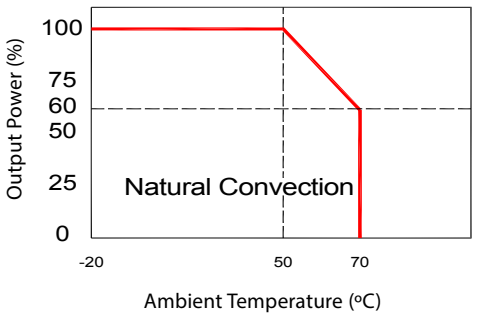
Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, Io nom		100~240		Vac
Voltage Range	Vo, Io nom	90		264	Vac
Line Frequency		47	50/60	63	Hz
Inrush Current	Vi:115VAC			20	A
	Vi:230VAC			40	A
Input Fuse	VDE/UL/CCC FUSE 3.15A/250V				

Output Specifications

Parameters	Conditions		Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom (Single Output)	3.3V, 5V Models			±3	%
		12….48V Models			±2	%
Minimum Load	Vi nom			0		%
Line Regulation	Io nom, Vi min…Vi max				±1	%
Load Regulation	Vi nom, Io min…Io nom				±2	%
Protection	Overload	Above 115%-150% rated output power **Protection type**: Recovers automatically after fault condition is removed				
	Short circuit	Recovers automatically after fault condition is removed				
	Over Voltage (Main Output)	120%-150% rated output Voltage **Protection type**: Shut off o/p voltage, re-power on to recover				

Temperature Derating Graph



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General Specifications

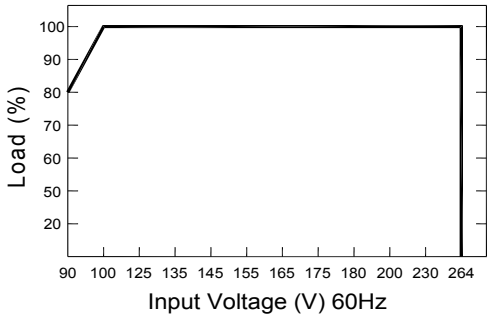
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, Io nom	-20		+70	ºC
Derating	Vi nom, Io nom+51 to 71 ºC			2	%/ ºC
Storage Temperature	Non Operational	-40		+85	ºC
Relative Humidity	Vi nom, Io nom			95	% RH
Safety Standards	EN 62368-1 approved				
EMI Conduction & Radiation	Design refer to EN55032				
EMS Immunity	Design refer to EN55024				
Dimensions	L101.60 x W50.80 x H31.0 mm				
Cooling	Free air convection				

Part Number

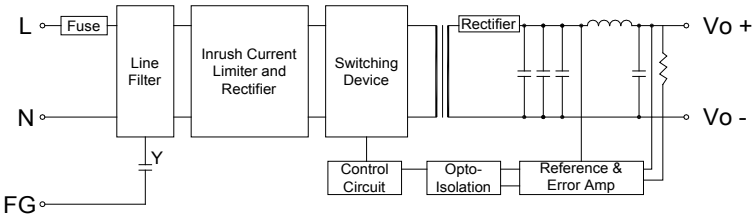
AD60A - S 12
A B C

A: Series
B: Single Output
C: Output Voltage

Output Derating VS Input Voltage



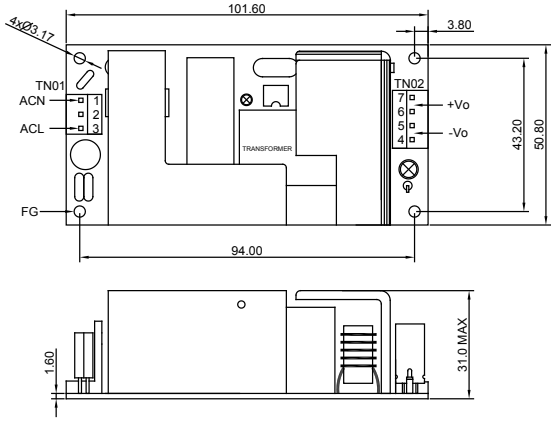
Circuit Schematic



Markings and Dimensions

AD60A-S12

AD60A-S24



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

Notes:
For input connector mates, please consult with factory.
For output connector mates, please consult with factory.

TN01	Model
PIN	Single Output
1	ACN
2	No PIN
3	ACL
TN02	
4	-Vo
5	-Vo
6	+Vo
7	+Vo

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