

FEATURES:

- Universal Input: 90~264VAC
- High Efficiency Up To 88%
- Protection: Short Circuit/Overload/Overvoltage
- 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	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				

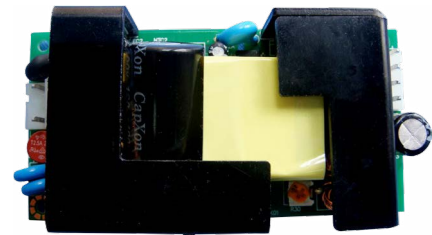
Output Specifications

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			

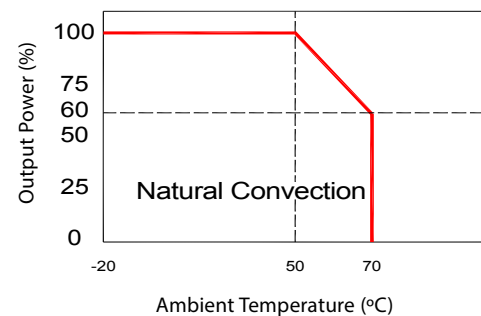
ADAM TECH

AC-DC Converter AD60A SERIES

60Watt
3KVac Isolated
Single Output
Open Frame



Temperature Derating Graph



General Specifications

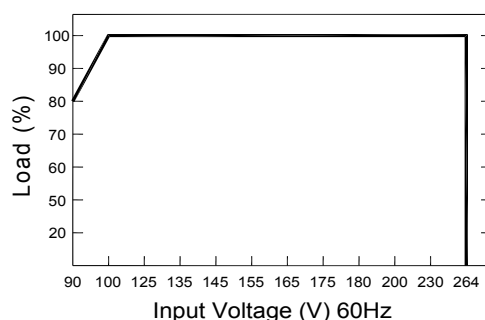
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, lo nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, lo nom	-20		+70	°C
Derating	Vi nom, lo nom+51 to 71 °C			2	%/ °C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, lo 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

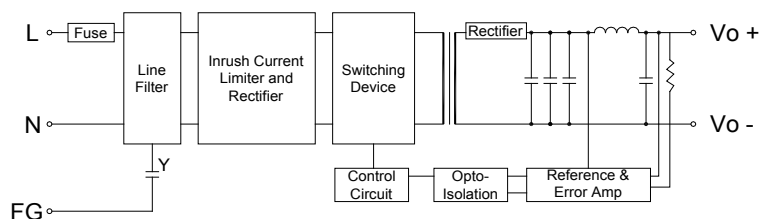
AD60A - $\frac{S}{B} \frac{12}{C}$

A: Series
B: Single Output
C: Output Voltage

Output Derating VS Input Voltage



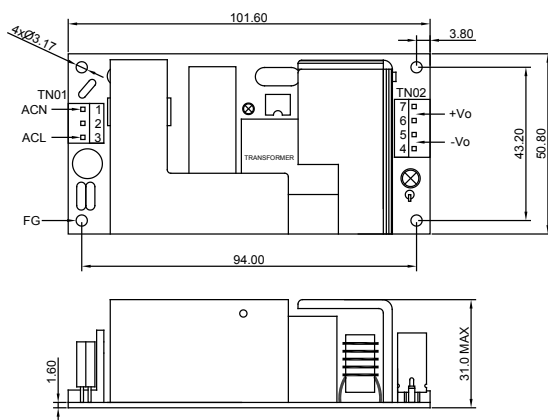
Circuit Schematic



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