

5-6Watt, Single Output ,AC/DC Converter



FEATURES:

- Universal Input 90~264VAC
- High Efficiency Up To 80%
- Protection: Short Circuit /Overload
- Internal Input Filter
- 2 Years Warranty
- ROHS Compliant

G A 5A - S 05
A B C D E

A:Series

B:Package

C:Output Watt

D:Single Output

E:Output Voltage



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)	(VDC)	(mA)	(mV) max	(TYP %)
GA5A-S03	3.3	3.3	1000	150	70
GA5A-S05	5	5	1000	150	70
GA5A-S06	5	6	830	150	70
GA5A-S07	5	7	715	150	72
GA5A-S08	5	8	625	150	72
GA5A-S09	5	9	555	150	75
GA5A-S10	5	10	500	150	75
GA5A-S12	6	12	500	150	75
GA5A-S13	6	13	460	150	76
GA5A-S14	6	14	430	150	76
GA5A-S15	6	15	400	150	76
GA5A-S16	6	16	375	150	76
GA5A-S18	6	18	335	150	78
GA5A-S24	6	24	250	240	78
GA5A-S27	6	27	220	240	78
GA5A-S36	6	36	165	240	80
GA5A-S48	6	48	125	240	80

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,Ionom	47		63	Hz
Inrush Current	Io nom	Vi:115VAC		10	A
		Vi:230VAC		20	A
Leakage Current				0.25	mA
Input Current(Full load)		130mA Max.(115Vac) 80mA Max.(230Vac)			
External Fuse(recommend)		VDE/UL/CCC FUSE 1.0A/250V (Slow blow).			

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Output Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	V_i nom, I_o nom			±2	%
Minimum Load	V_i nom	0			%
Line Regulation	I_o nom, V_i min... V_i max		±0.2		%
Load Regulation	V_i nom, I_o min... I_o nom	3.3V Models	±1.0		%
		5...48V Models	±0.5		%
Transient Recovery time	V_i nom, I_o nom = $\leftarrow \rightarrow 0.5 I_o$ nom		1,000		uS
Protection	Overload	Above 110% rated output power			
	Short circuit	Protection type: Recovers automatically after fault condition is removed			

General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	V_i nom, I_o nom		100		KHz
Isolation Voltage	Input / Output	3KVac/ 5mA/5Secs			
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-40		+70	°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	V_i nom, I_o nom			95	% RH
Safety Standards	Design refer to UL60950-1, IEC60950-1				
Dimension	L35.0 x W25.4 x H17.8 mm				
Cooling	Free air convection				

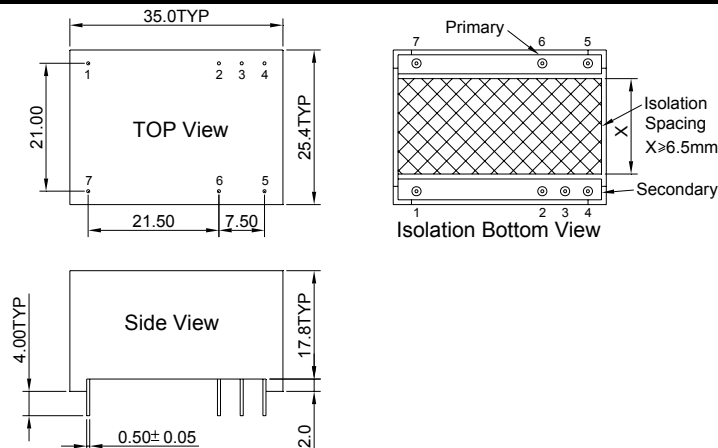
Temperature Derating Graph

Nature Convection

Recommended Application Circuit

NOTE: 1. Fuse: 1A/250V (Slow blow)
 2. 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.

Markings and dimensions



PIN Connection							
PIN	1	2	3	4	5	6	7
GA5A	NC	+Vo	-Vo	NC	L	N	NC