

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

$\frac{G}{A} \frac{A}{B} \frac{5A}{C} - \frac{S}{D} \frac{05}{E}$

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

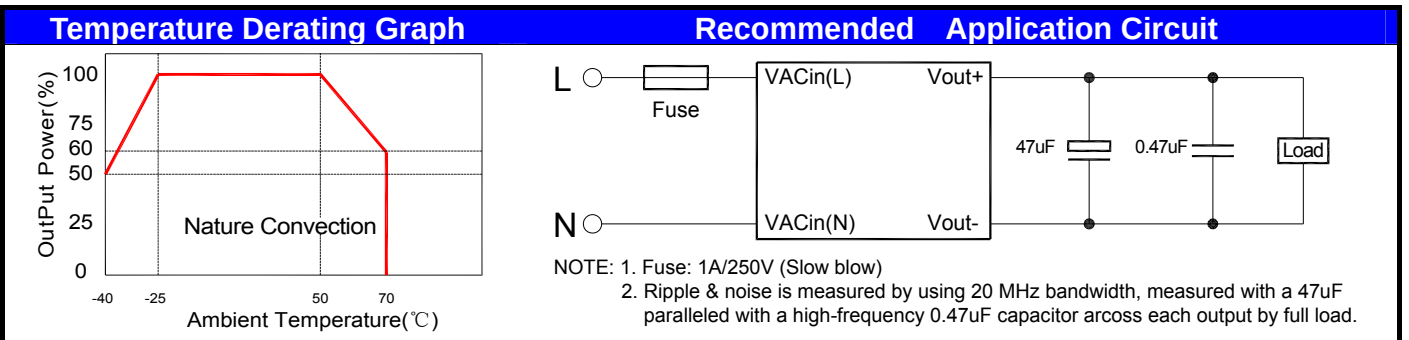
Parameters	Conditions		Min	Typ	Max	Units
Rated Input Voltage	Vo,lo nom			100~240		Vac
Voltage Range	Vo,lo nom	AC in	90		264	Vac
		DC in	120		370	Vdc
Line frequency	Vi nom,Ionom		47		63	Hz
Inrush Current	Io nom	Vi:115VAC			10	A
		Vi:230VAC			20	A
Leakage Current					0.25	mA
Input Current(Full load)	130mA Max.(115Vac) 80mA Max.(230Vac)					
External Fuse(recommend)	VDE/UL/CCC FUSE 1.0A/250V (Slow blow).					

Yuan Dean Scientific CO.,LTD GA5A SERIES

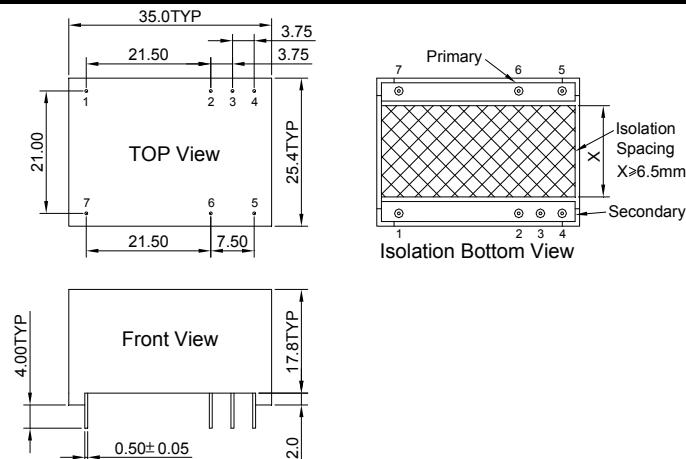
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Output Specifications						
Parameters	Conditions		Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom,lo nom				±2	%
Minimum Load	Vi nom		0			%
Line Regulation	lo nom,Vi min...Vi max			±0.2		%
Load Regulation	Vi nom, lo min...lo nom	3.3V Models		±1.0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

General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom,Io 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	℃
Storage Temperature	Non Operational	-40		+85	℃
Relative Humidity	Vi nom,Io 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				



Markings and dimensions



Unit: mm Unless otherwise specified, all tolerances are ± 0.50

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