

FEATURES :

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

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, Io nom	100~240			Vac
Voltage Range	Vo, Io nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line frequency	Vi nom, Io nom	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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AC-DC Converter

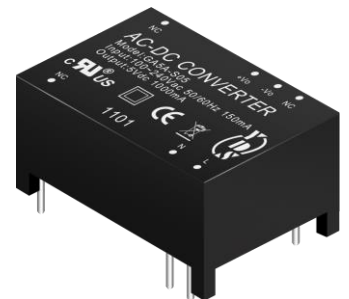
GA5A SERIES

5-6Watt

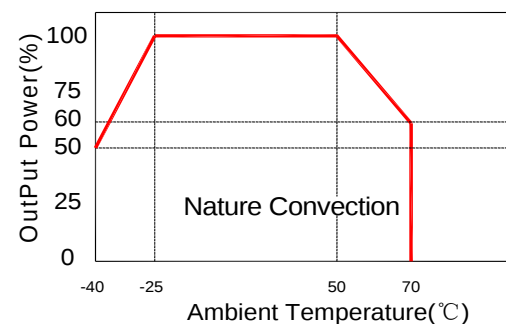
3KV Isolated

Single Output

Module



Temperature Derating Graph



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Rev:o 2017/7/3

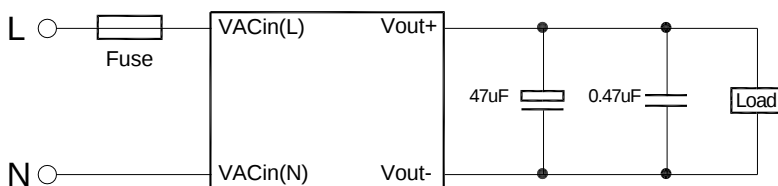
Output Specifications

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	± 0.1		%
		5...48V Models	± 0.5		%
Transient recovery time	V_i nom, I_o nom = $\leftarrow \rightarrow 0.5 I_o$ 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			

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				

Recommended Application Circuit



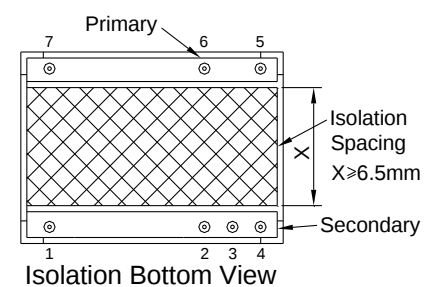
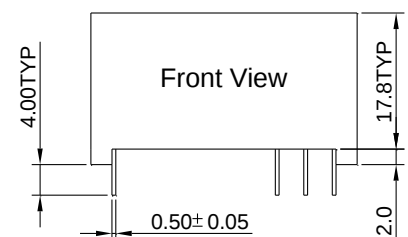
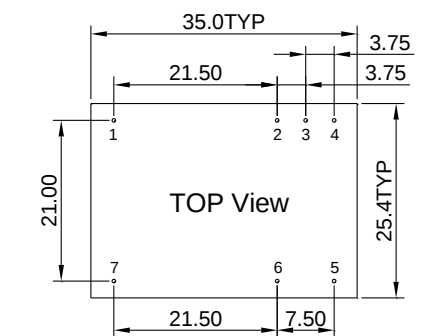
NOTE: 1. Fuse: 1A/250V (Slow blow)
 2. Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47uF paralleled with a high-frequency 0.47uF capacitor across each output by full load.

Part Number

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

A: Series
 B: Package
 C: Output Watt
 D: Single Output
 E: Output Voltage

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