

FEATURES :

- Ultra Compact Size 1.0" x 1.0" x 0.64" Package
- Universal Input 90~264VAC
- High Efficiency Up To 85%
- Protection: Short Circuit /Overload/Over Voltage
- Fully Encapsulated Plastic Case
- UL/IEC/EN60950-1 certified (Pending)
- UL/IEC/EN62368-1 certified (Pending)
- 3 Years Warranty
- ROHS Compliant

YUAN DEAN SCIENTIFIC

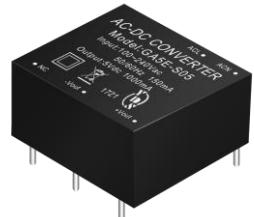
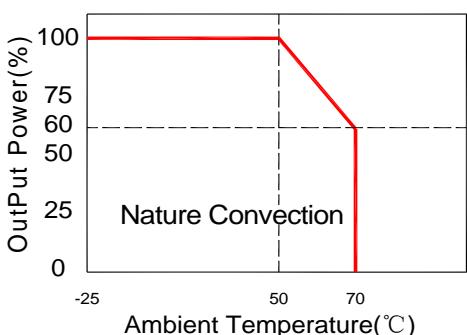
**AC-DC Converter****GA5E SERIES**

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	Max. Capacitive Load
	(W)	(VDC)	(mA)	(mV) max(Note)	(TYP %)	(μF)
GA5E-S03	5.0	3.3	1515	60	73	2200
GA5E-S05	5.0	5	1000	60	80	1000
GA5E-S09	5.0	9	555	90	81	300
GA5E-S12	5.0	12	416	120	81	160
GA5E-S15	5.0	15	333	150	82	100
GA5E-S24	5.0	24	208	240	82	43
GA5E-S48	5.0	48	104	480	84	10

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	50	63	Hz
Inrush Current	Io nom	Vi:115VAC		5	A
		Vi:230VAC		10	A
Input Fuse	VDE/UL/CCC	FUSE 2.5A/250V (Slow blow)			

5Watt**3KV Isolated****Single Output****1" x 1" Package Module****Temperature Derating Graph**www.yds.com.tw

TEL : 886-6-3842899 FAX : 886-6-3843288
E-MAIL : ydsweb@yds.com.tw

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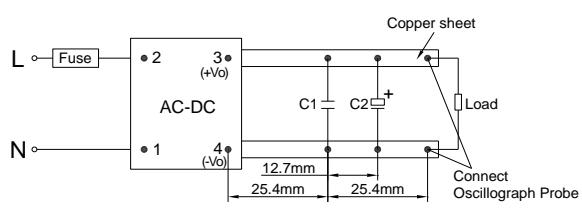
Output Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom	3.3....5V Models		± 3	%
		9....48V Models		± 2	%
Minimum Load	Vi nom	0			%
Line Regulation	Io nom,Vi min...Vi max		± 1.0		%
Load Regulation			± 1.0		%
Transient recovery time	Vi nom,Io nom $= \leftrightarrow 0.5$ Io 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			
	Over Voltage	120%-150% rated output Voltage			
Note : Ripple & noise is measured by using 20 MHz bandwidth, measured with a 10uf paralleled with a high-frequency 0.47uf capacitor across each output by full load.					

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	Refer to Temperature Derating Graph	-25		+70	°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, Io nom	95		% RH	
Safety Standards	Design refer to UL/IEC/EN 60950-1,UL/IEC/EN 62368-1				
EMI Conduction & Radiation	Design refer to EN55022,CLASS B				
EMS Immunity	Design refer to EN61000				
Dimension	L25.4 x W25.4 x H16.1 mm				
Cooling	Free air convection				

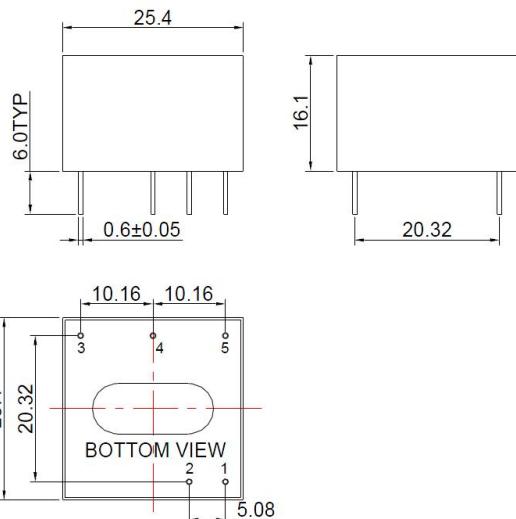
Part Number

GA5E - S 05
A B CA: Series
B: Single Output
C: Output Voltage

Parallel Lines Measure



Markings and Dimensions

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

	Model
PIN	Single
1	ACN
2	ACL
3	NC
4	-Vo
5	+Vo

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