

FEATURES :

- Universal Input 85~265VAC
- High Efficiency Up To 82%
- Protection: Short Circuit / Overload/Over Voltage
- Energy Efficiency Conforms to DOE6, CoC V5 T2
- No Load Power Consumption<0.075W
- 3 Years Warranty
- ROHS Compliant

YUAN DEAN SCIENTIFIC



AC-DC Converter

GA5G SERIES

5Watt

3KVac Isolated

Single Output

2" x 1" Package Module

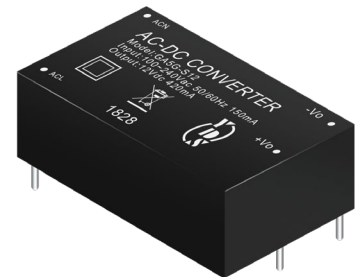
Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Wattage	Output Voltage	Output Current	Ripple & Noise	Efficiency
	(W)	(VDC)	(mA)	(mV) max	(TYP %)
GA5G-S05-X	5	5	1000	200	75
GA5G-S12-X	5.04	12	420	200	81
GA5G-S15-X	4.95	15	330	200	81
GA5G-S24-X	5.52	24	230	200	82

Notes:

X= ONE digit representing the output power (W) The output power is rising in steps of 1W from 1W to the max. output Power; When the output power is maximum power, X is omitted.

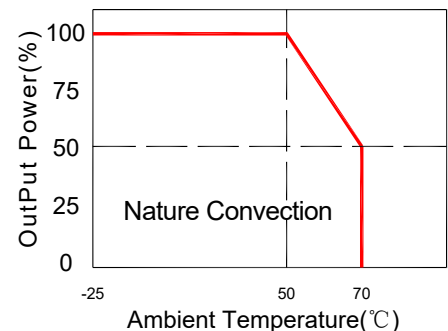
E.g:3W=GA5G-S05-3, GA5G-S15-3 5W=GA5G-S05, GA5G-S15



Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom	100~240			Vac
Voltage Range	Vo, lo nom	AC in	80	265	Vac
		DC in	100	370	Vdc
Line Frequency	Vi nom, lo nom	47		63	Hz
Inrush Current	Io nom	Vi:115VAC		20	A
		Vi:230VAC		40	A
Leakage Current				0.25	mA
Input Current (Full load)		120mA Max.(115Vac)	80mA Max.(230Vac)		
External Fuse(recommend)		VDE/UL/CCC FUSE 1.0A/250V (Slow blow).			

Temperature Derating Graph



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Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, lo nom			±5	%
Minimum Load	Vi nom	0			%
Line Regulation	lo nom, Vi min...Vi max		±1.0		%
Load Regulation	Vi nom, lo min...lo nom		±3.0		%
Protection	Over load	Above 115% rated output power			
		Protection type: Recovers automatically after fault condition is removed			
	Over Voltage	120%-150% rated output Voltage			
		Protection type: Zener diode clamp			
	Short circuit	Recovers automatically after fault condition is removed			

General Specifications

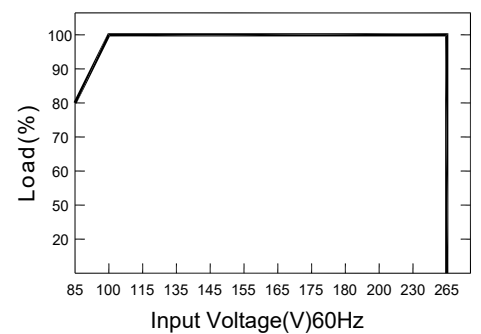
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, lo nom		100		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-25		+70	°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, lo nom			95	% RH
Safety Standards		EN62368-1 approved			
EMI Conduction & Radiation		Compliance to EN55032			
EMS Immunity		Compliance to EN55024			
Dimension		L50.80x W25.40 x H17.02mm			
Cooling		Free air convection			

Part Number

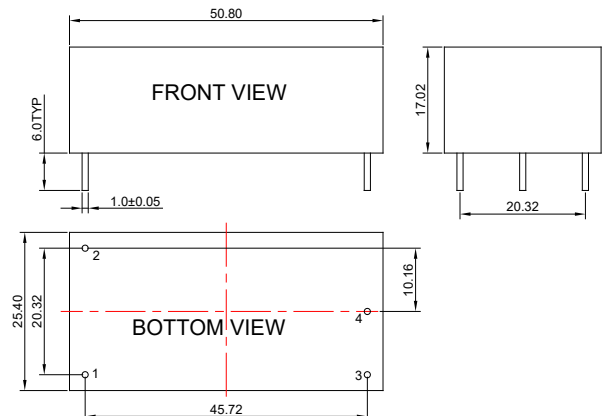
$$\frac{GA5G}{A} - \frac{S}{B} \frac{05}{C} - \frac{X}{D}$$

- A : Series
- B : Single Output
- C : Output Voltage
- D : Output Power

Output Derating VS Input Voltage



Markings and Dimensions



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

PIN Connection

PIN	1	2	3	4
GA5G	ACN	ACL	-Vo	+Vo

