

FEATURES :

- Universal Input 85~264VAC
- High Efficiency Up To 90%
- Protection: Short Circuit /Overload/Over Voltage
- Energy Efficiency Conforms to DOE6
- No Load Power Consumption<0.1W
- 3 Years Warranty
- ROHS Compliant

YUAN DEAN SCIENTIFIC



Green AC-DC Converter

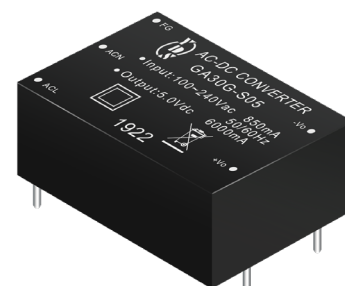
GA30G SERIES

30Watt

3KV Isolated

Single Output

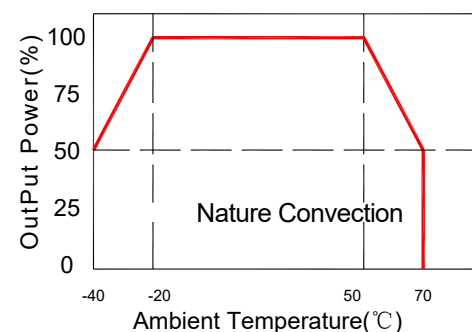
Module



Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	$V_{o,lo\ nom}$		100~240		Vac
Voltage Range	$V_{o,lo\ nom}$	AC in	85	264	Vac
		DC in	100	370	Vdc
Line Frequency	$V_i\ nom, lo\ nom$	47	50/60	63	Hz
Inrush Current	$I_o\ nom$	$V_i:115VAC$		25	A
		$V_i:230VAC$		45	A
Input Fuse	VDE/UL/CCC FUSE 2.5A/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	5V Models		±3	%
		12...48V Models		±2	%
Minimum Load	Vi nom	0			%
Line Regulation	lo nom, Vi min...Vi max		±1		%
Load Regulation	lo min~lo nom		±2		%
Transient Recovery time	Vi nom, lo nom = $\leftrightarrow$ 0.5 lo 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 (Main Output)	120%-150% rated output Voltage Protection type: Zener diode clamp			

Note :

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.

General Specifications

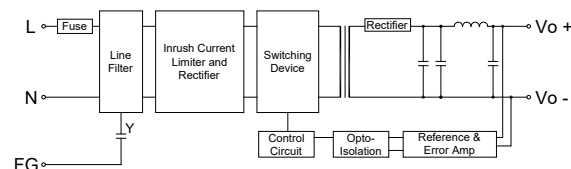
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, lo nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, lo nom	-40		+70	°C
Derating	Vi nom, lo nom+51 to 71°C			2	%/°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, lo nom			95	% RH
Safety Standards	Design refer to EN62368-1				
EMI Conduction & Radiation	Design refer to EN55032				
EMS Immunity	Design refer to EN55024				
Dimension	L69.85x W48.01 x H23.37mm L2.75x W1.89 x H0.92 inches				
Cooling	Free air convection				

Part Number

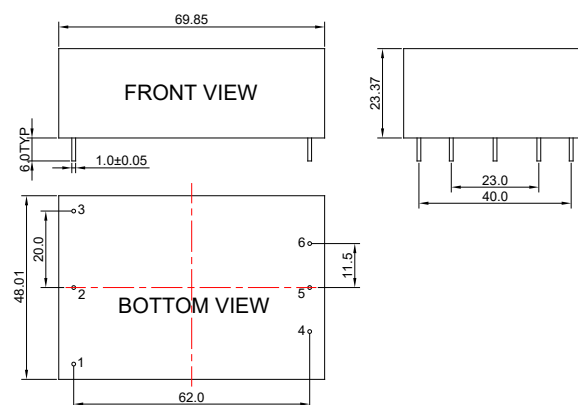
GA30G - $\frac{S}{A} \frac{12}{B} \frac{C}{C}$

A:Series
B:Single Output
C:Output Voltage

Circuit Schematic



Markings and Dimensions



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

PIN	Model
1	Single
2	FG
3	ACN
4	ACL
5	-Vo
6	NO PIN
	+Vo