

**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

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 (Note)	(TYP %)
GA30G-S05*	30.0	5	6000	120	83
GA30G-S12	30.0	12	2500	150	88
GA30G-S15	30.0	15	2000	150	88
GA30G-S24	30.0	24	1250	240	88
GA30G-S36	30.0	36	833	240	89
GA30G-S48	30.0	48	625	240	90

**Note :** \*GA30G-S05 Non-conformity to Energy Efficiency VI

**Input Specifications**

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, Io nom		100~240		Vac
Voltage Range	Vo, Io nom	AC in	85	264	Vac
		DC in	100	370	Vdc
Line Frequency	Vi nom, Io nom	47	50/60	63	Hz
Inrush Current	Io nom	Vi:115VAC		25	A
		Vi:230VAC		45	A
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)				

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Green AC-DC Converter

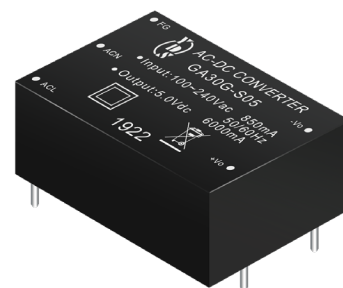
GA30G SERIES

30Watt

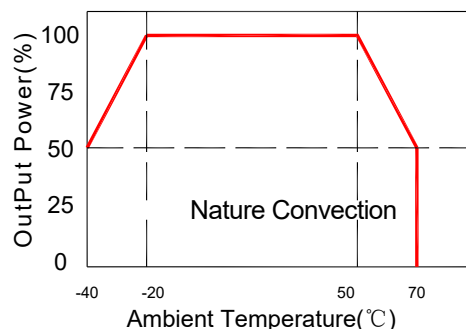
3KV Isolated

Single Output

Module



Temperature Derating Graph



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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	5V Models		±3	%
		12...48V Models		±2	%
Minimum Load	Vi nom	0			%
Line Regulation	Io nom, Vi min...Vi max		±1		%
Load Regulation	Io min~Io nom		±2		%
Transient Recovery time	Vi nom, Io nom = ↔0.5 Io nom		1000		us
Protection	Over load	Above 110% rated output power <b>Protection type:</b> 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 <b>Protection type:</b> 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

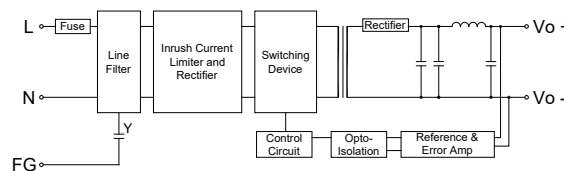
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output		3KVac/ 5mA/5Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, Io nom	-40		+70	°C
Derating	Vi nom, Io nom+51 to 71°C			2	%/°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, Io 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

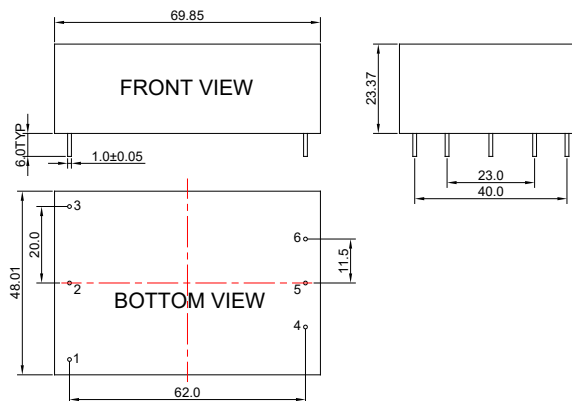
GA30G - S 12  
A B C

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

