

FEATURES :

- Universal Input 90~264VAC
- High Efficiency Up To 85%
- Protection: Short Circuit /Overload/Over Voltage
- Fully Encapsulated Plastic Case
- Internal Input Filter
- 3 Years Warranty
- ROHS Compliant

YUAN DEAN SCIENTIFIC



AC-DC Converter

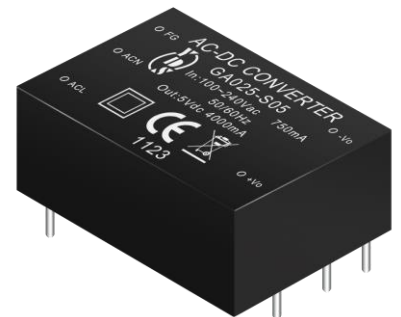
GA025 SERIES

25Watt

3KV Isolated

Single & Dual Output

Module

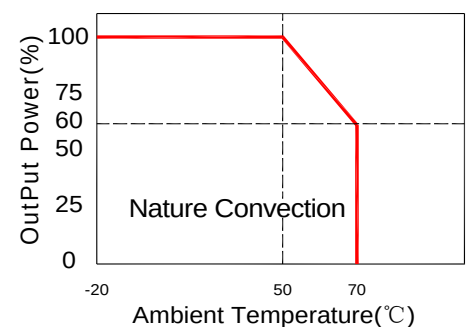


Part Number	Output Wattage	Output Voltage	Output Current	Ripple & Noise	Efficiency
	(W)	(VDC)	(mA)	(mV) max (Note1)	(TYP %)
GA025-S03	16.5	3.3	5000	150	75
GA025-S13	26.0	13	2000	150	80
GA025-S14	26.0	14	1850	150	80
GA025-S15	26.0	15	1750	200	82
GA025-S16	26.0	16	1625	200	82
GA025-S18	26.0	18	1450	200	82
GA025-S24	26.4	24	1100	240	85
GA025-S27	27.0	27	1000	240	85
GA025-S36	27.0	36	750	240	85
GA025-S48	27.0	48	560	240	85
GA025-D05	25.0	±5	±2500	150	75
GA025-D12	24.0	±12	±1000	150	78
GA025-D15	24.0	±15	±800	150	80
GA025-D24	24.0	±24	±500	150	80
GA025-D0305	13.5	Vo1=+3.3, Vo2=+5	Io1=2500, Io2=1000	150(Vo1) 240(Vo2)	76
GA025-D0512	24.0	Vo1=+5, Vo2=+12	Io1=2400, Io2=1000		76
GA025-D0515	24.0	Vo1=+5, Vo2=+15	Io1=2400, Io2=800		76
GA025-D0524	24.0	Vo1=+5, Vo2=+24	Io1=2400, Io2=500		78

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	50/60	63	Hz
Inrush Current	Io nom	Vi:115VAC		12	A
		Vi:230VAC		20	A
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)				

Temperature Derating Graph



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Rev:0 2017/9/14

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom (Single output)	3.3V Models		±3	%
		13...48V Models		±2	%
	Dual Output			±5	%
Minimum Load	Vi nom	Single Output Models		0	%
		Dual Output Models (each output)		20	%
Line Regulation	Io nom, Vi min...Vi max		±1		%
Load Regulation	Io min~ Io nom	Single Output Models		±2	%
		Dual Output Models		±5	%
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 (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, 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	-20		+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	EN60950-1 approved				
EMI Conduction & Radiation	Compliance to EN55022				
EMS Immunity	Compliance to EN55024				
Dimension	L76.2x W50.8 x H25.4mm L3.0x W2.0 x H1.0 inches				
Cooling	Free air convection				

Part Number

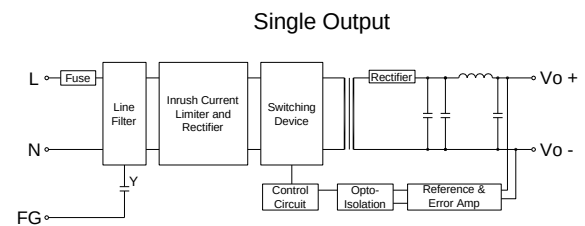
GA025 - D 05
A B C

A: Series

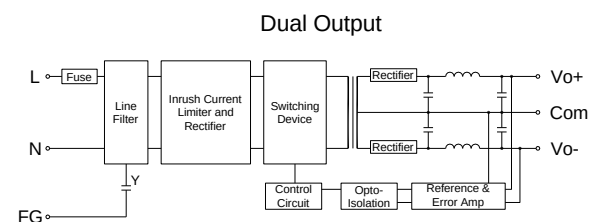
B: Single(S) Dual (D)

C: Output Voltage

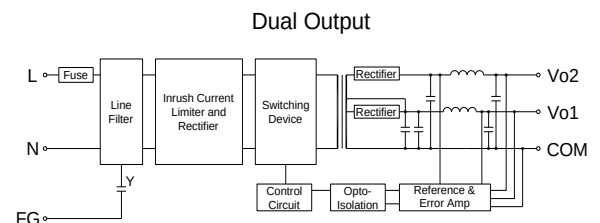
Circuit Schematic(1)



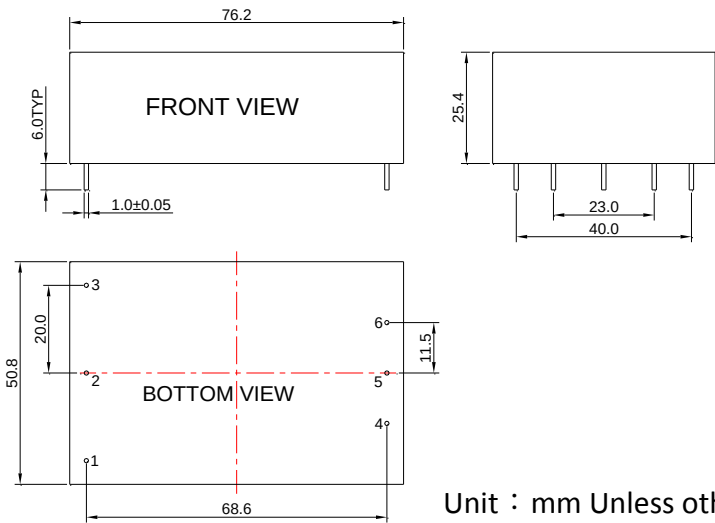
Circuit Schematic(2)



Circuit Schematic(3)



Markings and dimensions



PIN	Model		
	Single	Dual	Dual
1	FG	FG	FG
2	ACN	ACN	ACN
3	ACL	ACL	ACL
4	-Vo	-Vo	+Vo2
5	NO PIN	Com	Com
6	+Vo	+Vo	+Vo1

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