

30Watt, Single & Dual Output ,AC/DC Power Module Converter



FEATURES:

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

G A 030 - S 03
A B C D E

A:Series
B:Package
C:Output Watt
D:Single(S) Dual(D)
E:Output Voltage

Part Number	Output Wattage (W)	Output Voltage (VDC)	Output Current (mA)	Ripple & Noise (mV) max(Note)	Efficiency (TYP %)
GA030-S03	23.1	3.3	7000	100	75
GA030-S05	30.0	5	6000	100	78
GA030-S12	30.0	12	2500	100	80
GA030-S15	30.0	15	2000	150	82
GA030-S24	30.0	24	1250	150	83
GA030-S48	30.0	48	625	240	85
GA030-D05	30.0	±5	±3000	100	75
GA030-D12	30.0	±12	±1250	150	79
GA030-D15	30.0	±15	±1000	150	80
GA030-D24	30.0	±24	±625	150	80
GA030-D0512	30.0	Vo1=+5,Vo2=+12	Io1=3000,Io2=1250	100(Vo1) 150(Vo2)	76
GA030-D0515	30.0	Vo1=+5,Vo2=+15	Io1=3000,Io2=1000		76
GA030-D0524	30.0	Vo1=+5,Vo2=+24	Io1=3000,Io2=625		78

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)			

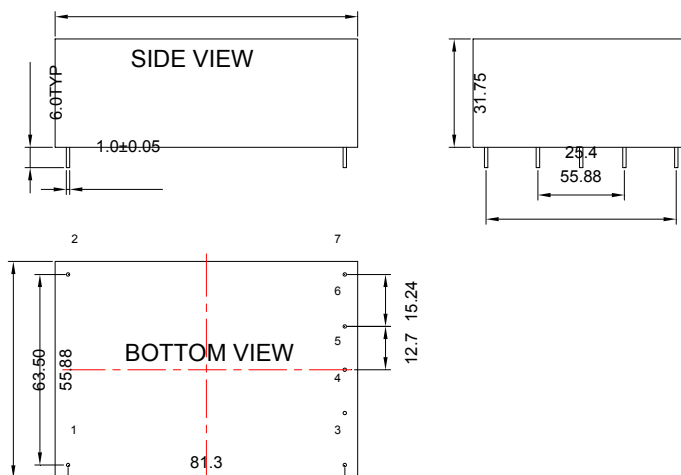
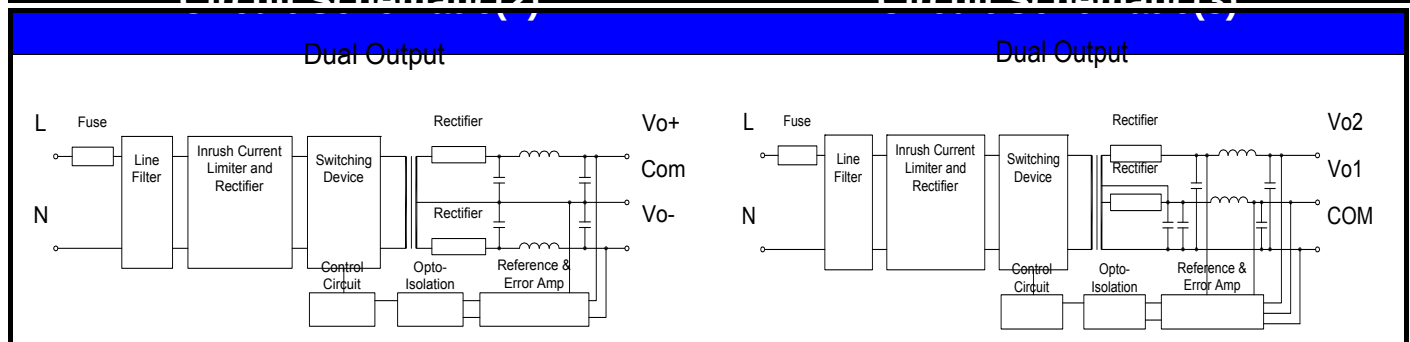
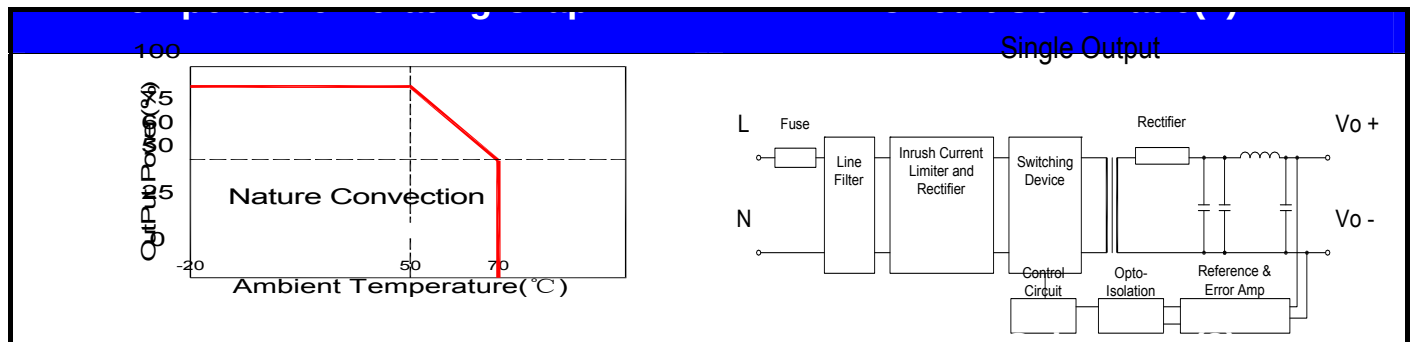
Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom 3.3V, 5V Models			±3	%
	(Single output) 12....48V Models			±2	%
	Dual Output			±5	%
Minimum Load	Vi Single Output Models	0			%
	Io nom, Vi min... Vi max Dual Output Models(each output)	20			%
Line Regulation	Io nom, Vi min... Vi max		±1		%
Load Regulation	Io min~ Single Output Models		±2		%
	Io nom Dual Output Models		±5		%
Transient Recovery time	Vi nom, Io nom = $\longleftrightarrow$ 0.5 Io nom		1,000		uS
Protection	Overload	Above 110% rated output power			
	Short circuit	Protection type: Recovers automatically after fault condition is removed			
		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.

Yuan Dean Scientific CO.,LTD GA030 SERIES

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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
Dimension	L88.90x W63.50 x H31.75mm L3.5x W2.5 x H1.25 inches				
Cooling	Free air convection				



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

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