

Yuan Dean Scientific CO.,LTD GA007 SERIES

7Watt, Single & Dual Output ,AC/DC Power Module Converter



FEATURES:

- Universal Input 90~264VAC
- High Efficiency Up To 82%
- Protection: Short Circuit /Overload/Over Voltage
- Fully Encapsulated Plastic Case
- Internal Input Filter
- 2 Years Warranty ● ROHS Compliant

G A 007 - S 03
A B C D E

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



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

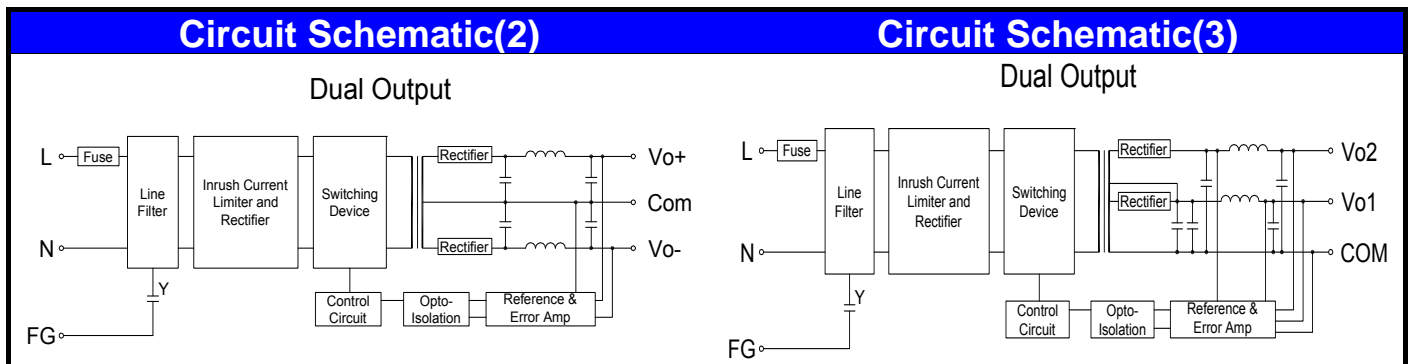
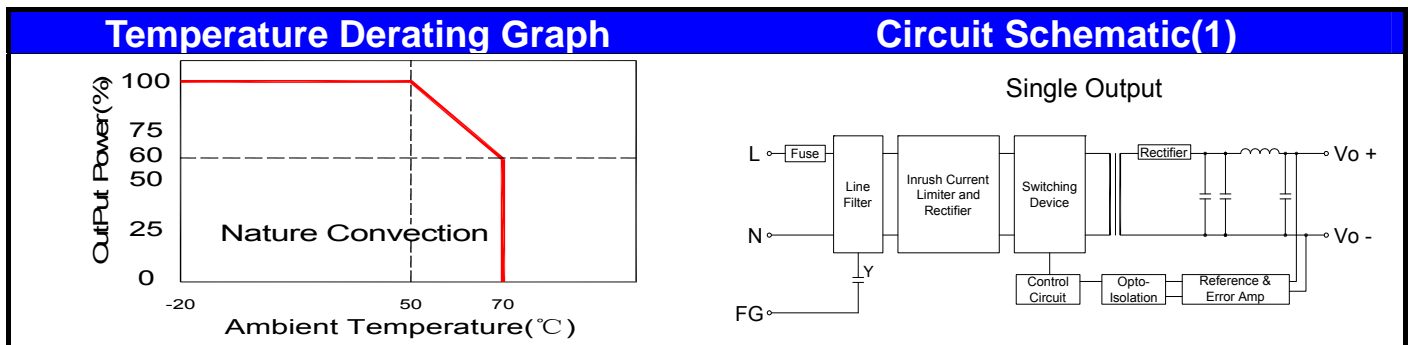
Part Number	Output Wattage	Output Voltage	Output Current	Ripple & Noise	Efficiency
	(W)	(VDC)	(mA)	(mV) max(Note)	(TYP %)
GA007-S03	6.6	3.3	2000	100	70
GA007-S05	7.5	5	1500	100	75
GA007-S06	7.2	6	1200	100	75
GA007-S07	7.0	7	1000	100	75
GA007-S08	7.2	8	900	100	75
GA007-S09	7.2	9	800	100	75
GA007-S10	7.5	10	750	100	75
GA007-S12	7.5	12	625	150	80
GA007-S13	7.8	13	600	150	80
GA007-S14	7.0	14	500	150	80
GA007-S15	7.5	15	500	150	80
GA007-S16	7.2	16	450	150	80
GA007-S18	7.2	18	400	150	80
GA007-S24	7.5	24	320	240	80
GA007-S27	7.5	27	280	270	82
GA007-S36	7.2	36	200	360	85
GA007-S48	7.5	48	160	480	85
GA007-D05	7.0	±5	±700	100	72
GA007-D12	7.2	±12	±300	150	78
GA007-D15	7.5	±15	±250	150	80
GA007-D24	7.2	±24	±150	240	80
GA007-D0512	7.0	Vo1=+5,Vo2=+12	Io1=800,Io2=250	100(Vo1) 150(Vo2)	75
GA007-D0515	7.0	Vo1=+5,Vo2=+15	Io1=800,Io2=200	100(Vo1) 150(Vo2)	75
GA007-D0524	7.0	Vo1=+5,Vo2=+24	Io1=800,Io2=125	100(Vo1) 240(Vo2)	75

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			10	A
		Vi:230VAC			20	A
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)					

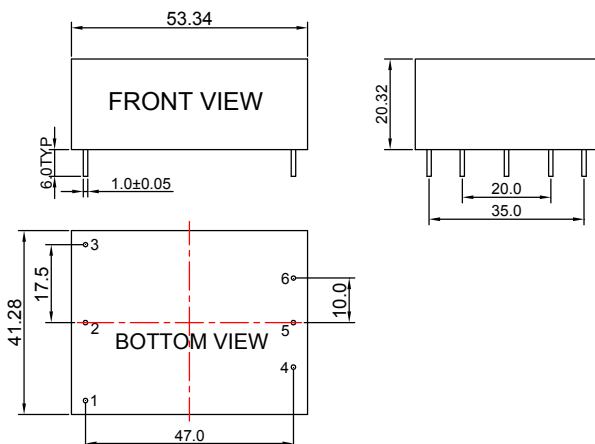
Output Specifications						
Parameters	Conditions		Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom (Single output)	3.3V,5V Models			±3	%
		12...48V Models			±2	%
Minimum Load	Vi nom	Single Output Models	0			%
		Dual Output Models(each output)	20			%
Line Regulation	Io nom, Vi min...Vi max			±1		%
Load Regulation	Io min~Io nom	Single Output Models		±2		%
		Dual Output Models		±5		%
Transient Recovery time	Vi nom, Io nom = ←→0.5 Io nom			1,000		uS
Protection	Overload		Above 110% rated output power			
	Short circuit		Recovery type: 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
Dimension	L53.34x W41.28 x H20.32mm L2.1x W1.63 x H0.8 inches				
Cooling	Free air convection				



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