

FEATURES :

- Universal Input 80~264VAC
- Medical safety design refers to (2 X MOPP) according to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- Suitable for BF application with appropriate system consideration
- No load power consumption < 0.1W
- Extremely low leakage current
- EMI class B for class II configuration
- Protection: Short Circuit / Overload / Over Voltage / Over Temperature
- No minimum load required
- 3 Years Warranty
- ROHS Compliant

Applications:

- Portable medical device
- Mobile clinical workstation
- Medical computer monitor
- Medical examination instrument

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 %)
GA5M-S05	5.0	5	1000	100	76
GA5M-S12	5.0	12	420	150	80
GA5M-S15	5.0	15	330	150	81
GA5M-S24	5.0	24	230	180	82

Notes:

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.

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Voltage Range	Vo, lo nom	AC in	80	264	Vac
		DC in	105	370	Vdc
Line frequency	Vi nom, lo nom	47	50/60	63	Hz
Inrush Current	lo nom	Vi:115VAC		25	A
		Vi:230VAC		45	A
Input Current (Full load)		0.2A (115Vac) 0.1A (230Vac)			
Input Fuse	VDE/UL/CCC FUSE 2.5A/250V (Slow blow)				

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AC-DC Converter

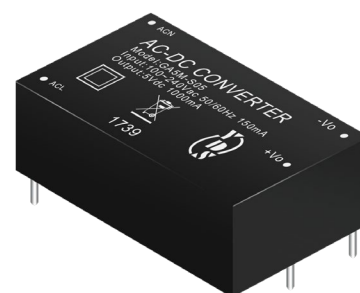
GA5M SERIES

5Watt

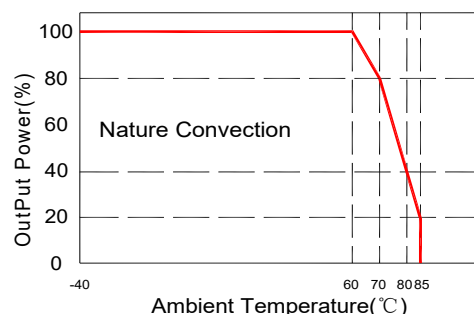
4KVac Isolated

Single Output

2" x 1" Package Module



Temperature Derating Graph



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Output Specifications

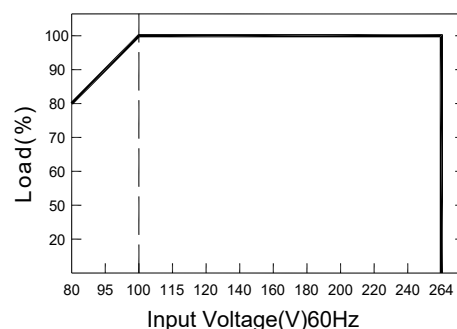
Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, 5V Models			±3	%
	Io nom, 12/15/24V Models			±2	%
Minimum Load	Vi nom	0			%
Line Regulation	Io nom, Vi min...Vi max		±0.3		%
Load Regulation	Vi nom, Io min...Io nom		±0.5		%
Protection	Over load	Above 110% rated output power Protection type: Recovers automatically after fault condition is removed			
	Short circuit	Recovers automatically after fault condition is removed			
	Over Voltage	110%-150% rated output Voltage Protection type: Zener diode clamp			
	Over Temperature	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down			

Part Number

GA5M - S 12
A B C

A: Series
B: Single Output
C: Output Voltage

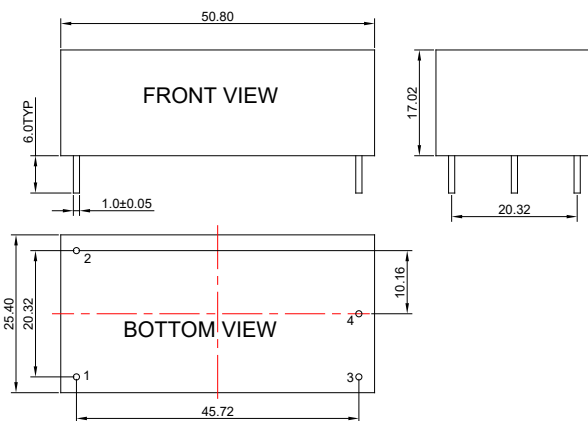
Output Derating VS Input Voltage



General Specifications

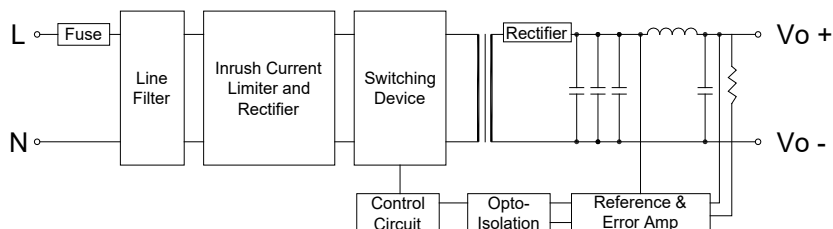
Parameters	Conditions	Min	Typ	Max	Units
Isolation Voltage	Input / Output		4KVac/ 5mA/60Secs		
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, Io nom	-40		+85	°C
Storage Temperature	Non Operational	-40		+100	°C
Relative Humidity	Vi nom, Io nom			95	% RH
Dimension	L50.80x W25.40 x H17.02mm				
Cooling	Free air convection				

Markings and Dimensions



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

Circuit Schematic



PIN Connection

PIN	1	2	3	4
GA5M	ACN	ACL	-Vo	+Vo