



## 10Watt, Single Output , Medical AC/DC Converter

### FEATURES:

- Universal Input 80~264VAC
- Medical safety design refer 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
- 2 Years Warranty ● ROHS Compliant

GA10M - S 05  
A B C

A:Series  
B:Single Output  
C:Output Voltage

### 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(note)	Efficiency
	(W)	(V)	(mA)(min)	(mA)(max)	(mV) max	%(TYP)
GA10M-S05	10	Vo=+5.0	0	2000	100	79

### Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, Io nom		100~240		Vac
Voltage Range	Vo, Io nom	AC in	80	264	Vac
		DC in	105	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 Current(Full load)		0.3A (115Vac) 0.2A (230Vac)			
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			±3	%
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	Overload	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	110%-150% rated output Voltage			
		<b>Protection type:</b> Zener diode clamp			
	Over Temperature	<b>Protection type:</b> Shut down o/p voltage, recovers automatically after temperature goes down			

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.

### CONTACT US

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San Jose, CA 95131

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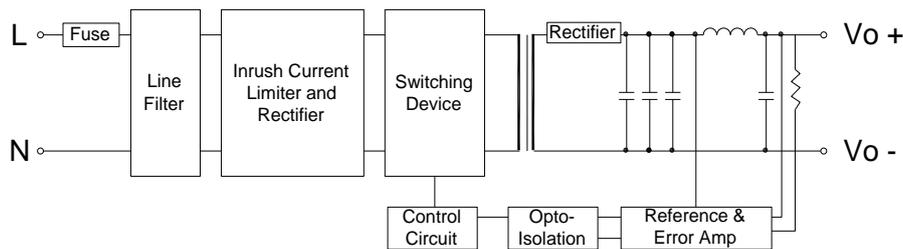
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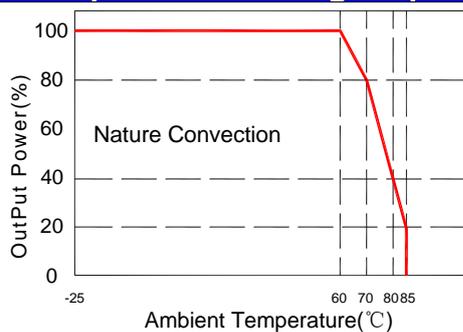
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General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Isolation Voltage	Input / Output	4KVac/ 5mA/60Secs			
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, Io nom	-25		+85	°C
Storage Temperature	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				

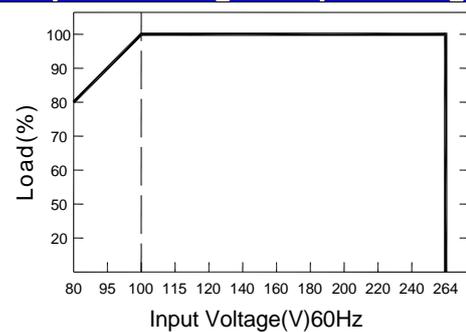
### Circuit Schematic



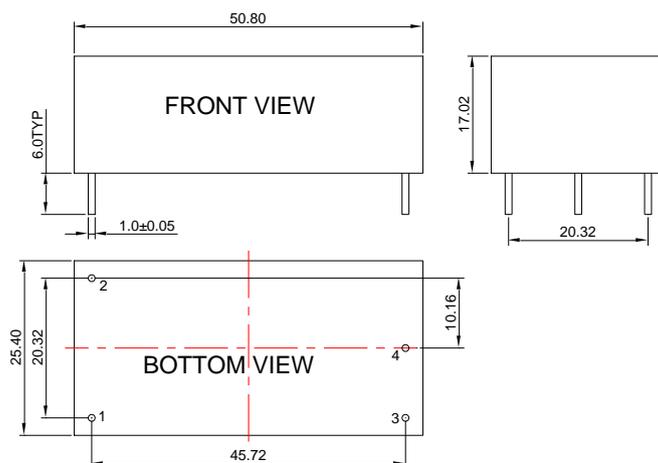
### Temperature Derating Graph



### Output Derating VS Input Voltage



### Markings and dimensions



Unit: mm Unless otherwise specified, all tolerances are  $\pm 0.50$

### PIN Connection

PIN	1	2	3	4
GA10M	ACN	ACL	-Vo	+Vo

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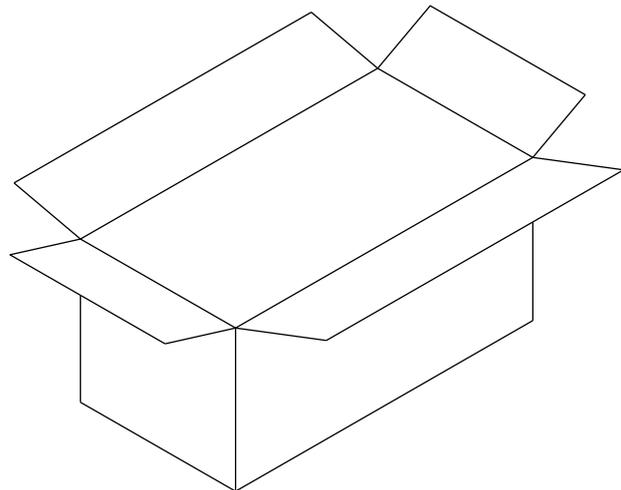
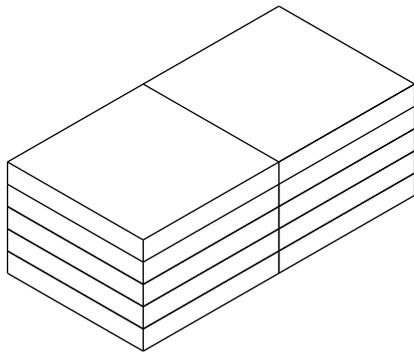
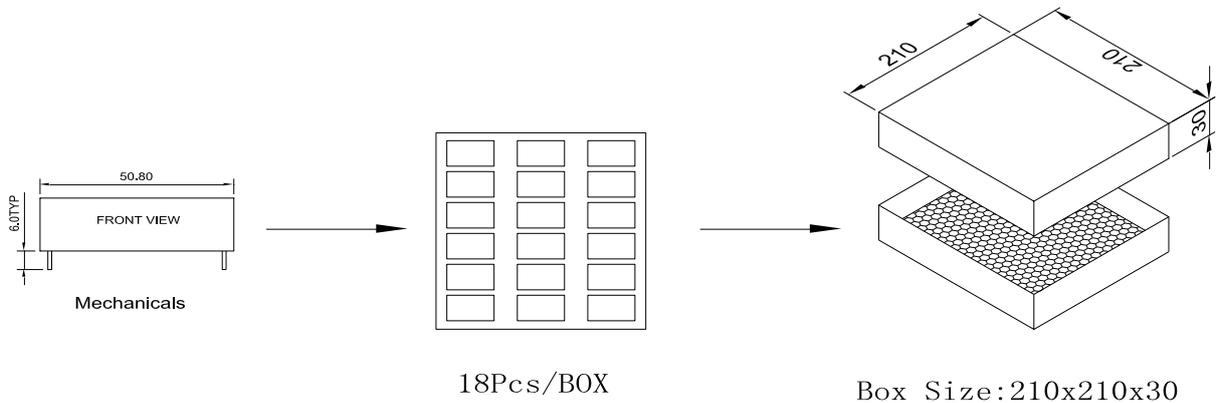




KAGA FEI AMERICA, Inc.

## 10Watt, Single Output , Medical AC/DC Converter

1. Weight:40grams/pcs
2. outer carton unit : 180pcs/box
3. Weight: 9.0kg per carton



Outer carton: 460x240x220mm

UNIT:mm

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