

5Watt, 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

GA5M - 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)
GA5M-S05C01	5	Vo=+5.0	0	1000	100	76

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)		0.2A (115Vac) 0.1A (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			
		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				

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.

DESCRIPTION:

Rev. 1.0

AP'PD: Zhu ShiYang

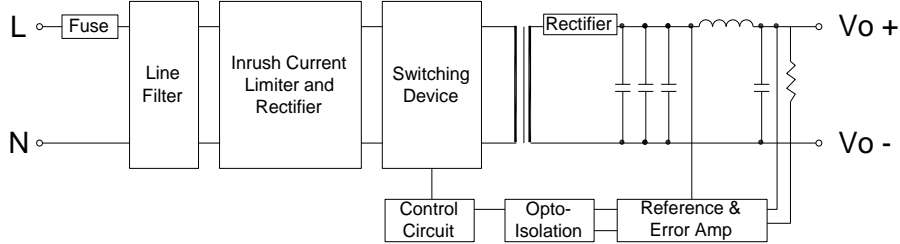
DWN: Chen JiaPei

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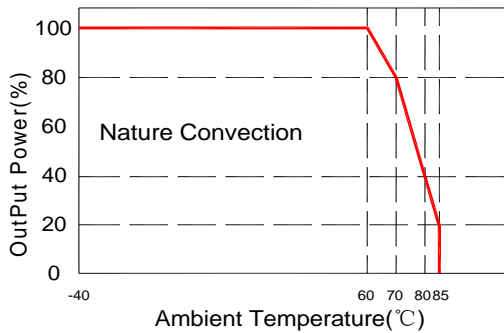
2018-6-11

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				

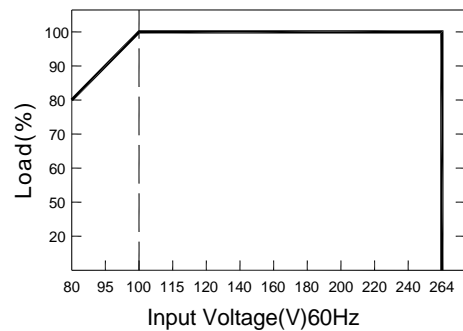
Circuit Schematic



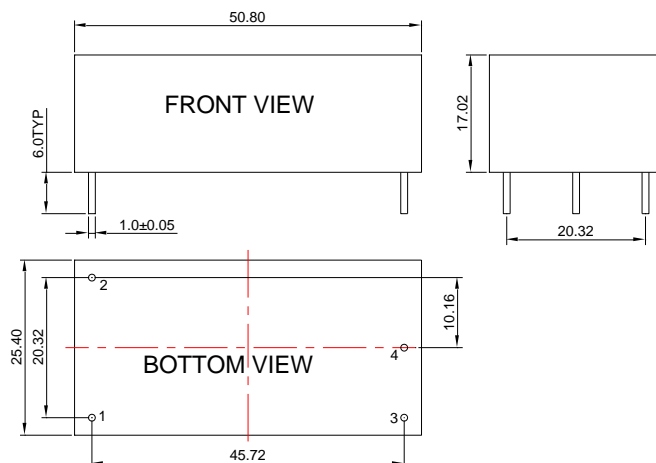
Temperature Derating Graph



Output Derating VS Input Voltage



Markings and dimensions



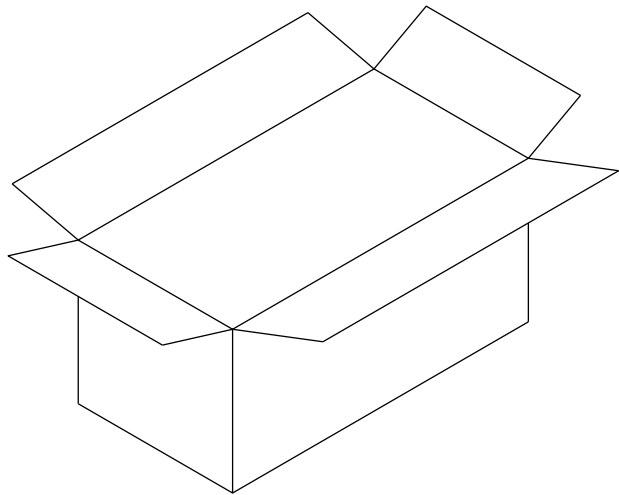
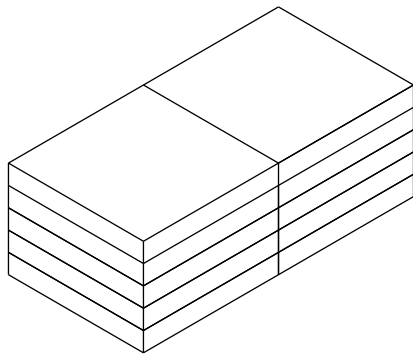
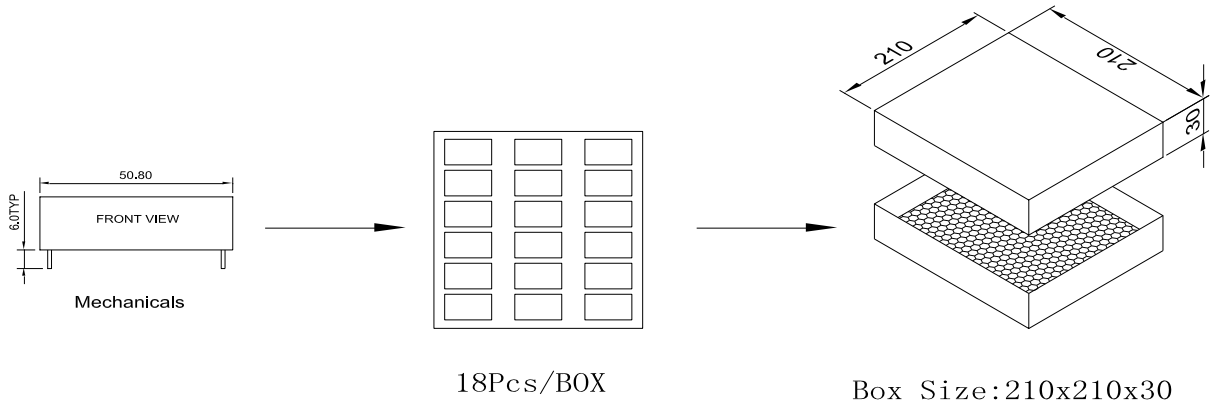
Unit: mm Unless otherwise specified, all tolerances are ± 0.50

PIN Connection

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

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



Outer carton: 460x240x220mm
UNIT:mm