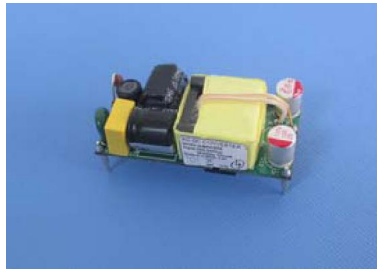


5Watt, Single Output , Medical AC/DC Open Frame Converter

GB5M - S 05
 A B C

 A:Series
 B:Single Output
 C:Output Voltage

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

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 %)
GB5M-S05	5.0	5	1000	100	76
GB5M-S12	5.0	12	420	150	80
GB5M-S15	5.0	15	330	150	81
GB5M-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.

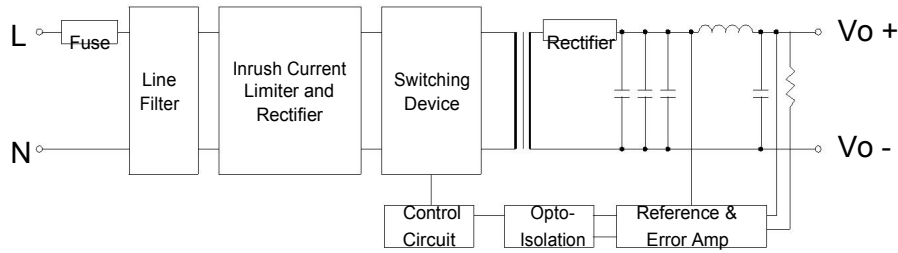
Input Specifications						
Parameters	Conditions		Min	Typ	Max	Units
Rated Input Voltage	Vo,lo nom			100~240		Vac
Voltage Range	Vo,lo nom	AC in	80		264	Vac
		DC in	105		370	Vdc
Line frequency	Vi nom, Ionom		47	50/60	63	Hz
Inrush Current	Io nom	Vi:115VAC			25	A
		Vi:230VAC			45	A
Input Current(Full load)	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, lo nom	5V Models			±3	%
		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	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			

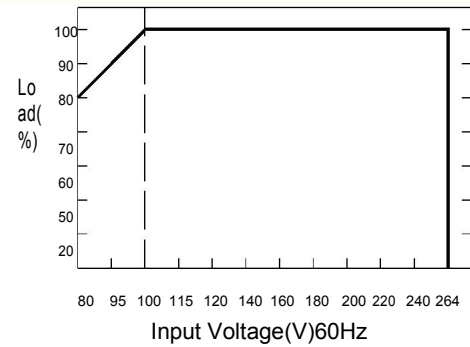
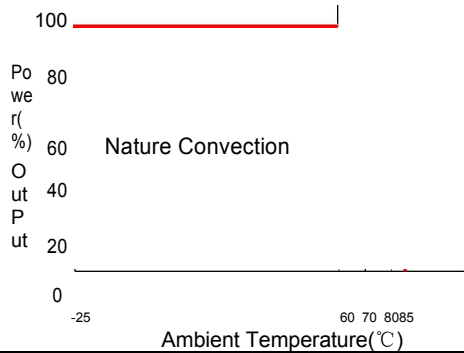
5Watt, Single Output , Medical AC/DC Open Frame Converter

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,lo nom	-25		+85	°C
Storage Temperature	Non Operational	-40		+100	°C
Relative Humidity	Vi nom,lo nom			95	% RH
Dimension	L48.5x W23 x H14.0mm				
Cooling	Free air convection				

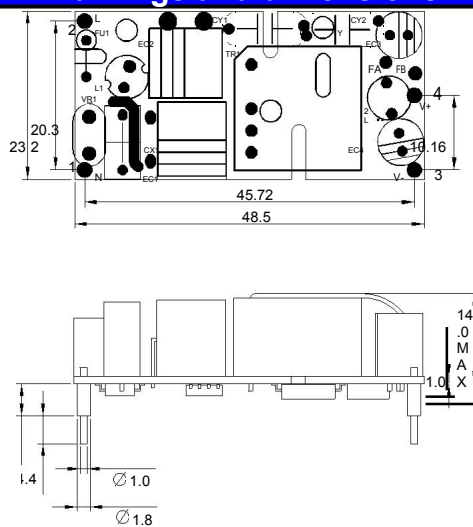
Circuit Schematic



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
GB5M	ACN	ACL	-Vo	+Vo