

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
- 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 %)
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

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.

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, lo nom		100~240		Vac
Voltage Range	Vo, lo nom	AC in		264	Vac
		DC in	105	370	Vdc
Line Frequency	Vi nom, lo nom	47	50/60	63	Hz
Input 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	FUZE 2.5A/250V (Slow blow)			

YUAN DEAN SCIENTIFIC



AC-DC Converter

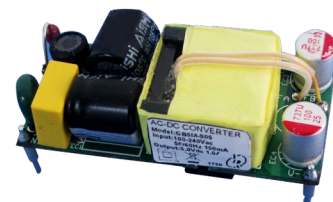
GB5M SERIES

5Watt

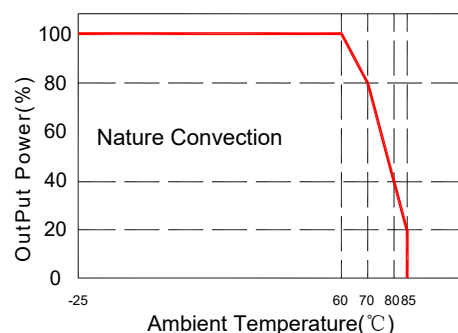
4KVac Isolated

Single Output

Open Frame



Temperature Derating Graph



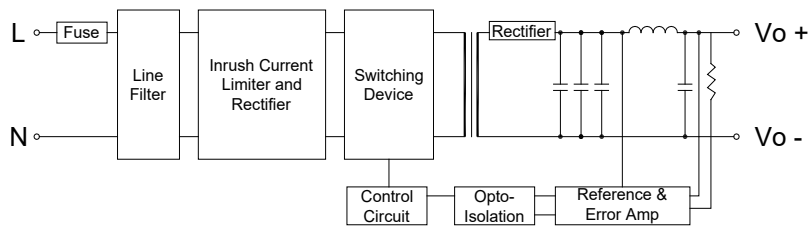
Output Specifications

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	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				

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	L48.5x W23 x H14.0mm				
Cooling	Free air convection				

Circuit Schematic



PIN Connection

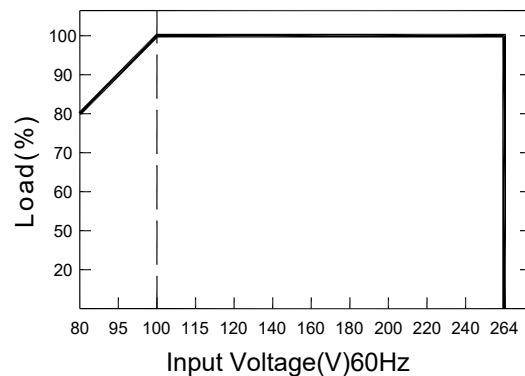
PIN	1	2	3	4
GB5M	ACN	ACL	-Vo	+Vo

Part Number

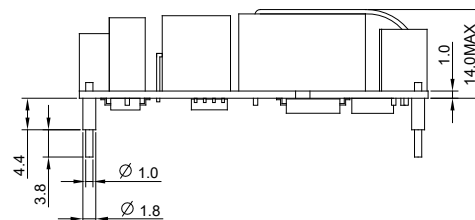
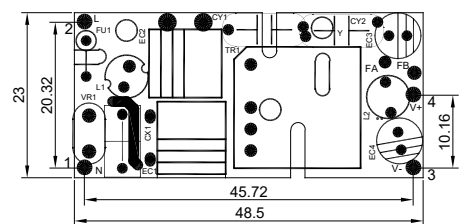
$$\frac{\text{GB5M}}{\text{A}} - \frac{\text{S}}{\text{B}} \frac{\text{05}}{\text{C}}$$

- A : Series
- B : Single Output
- C : Output Voltage

Output Derating VS Input Voltage



Markings and Dimensions



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