

FEATURES :

- Universal Input 90~264VAC
- High Efficiency Up To 85%
- Protection: Short Circuit /Overload/Over voltage
- Meet EMI EN55022 & EMS EN55024 standard
- Internal Input Filter
- 3 Years Warranty
- ROHS Compliant

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 %)
GB015-S03	10	3.3	3000	100	70
GB015-S05	15	5	3000	100	75
GB015-S12	18	12	1500	100	80
GB015-S15	18	15	1200	150	82
GB015-S24	19	24	800	240	83
GB015-S48	19	48	400	240	85

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input	Vo, Io nom		100~240		Vac
Voltage Range	Vo, Io nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, Io nom	47	50/60	63	Hz
Inrush Current	Io nom	Vi:115VAC		10	A
		Vi:230VAC		20	A
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 (Single output)	3.3V,5V Models		±3	%
		12....48V Models		±2	%
Minimum Load	Vi nom	Single Output Models	0		%
Line Regulation	Io nom, Vi min...Vi max		±1		%
Load Regulation	Io min~ Io nom	Single Output Models		±2	%
Transient Recovery time	Vi nom, Io nom = ↔0.5 Io nom		1000		us
Protection	Over Load		Above 110% rated output power Protection type: Recovers automatically after fault condition is removed		
	Over Voltage		120%-150% rated output Voltage Protection type: Zener diode clamp		
	Short circuit		Recovers automatically after fault condition is removed		

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.

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AC-DC Converter

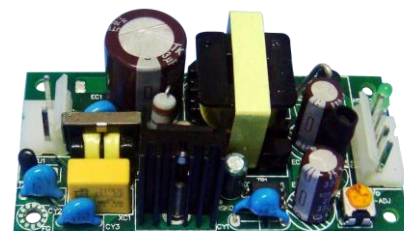
GB015 SERIES

10~19Watt

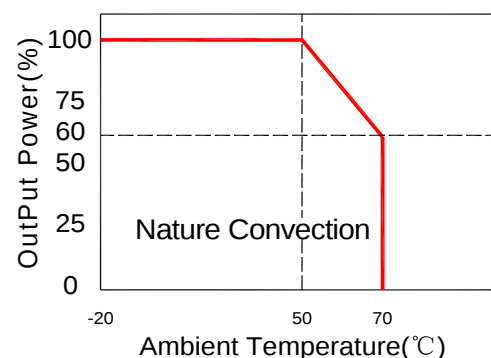
3KVac Isolated

Single Output

Open Frame



Temperature Derating Graph



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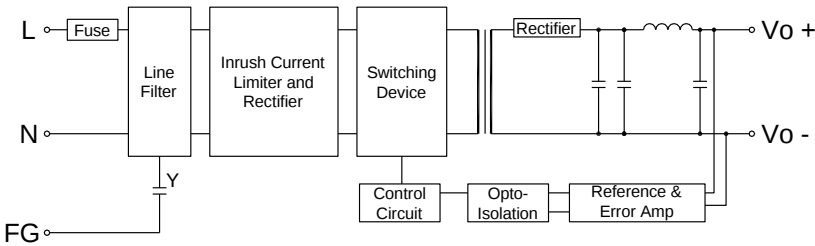
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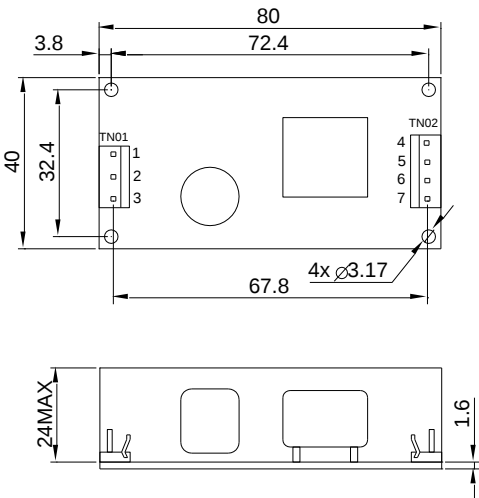
General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output	3KVac/ 5mA/5Secs			
Isolation Resistance	Input / Output,@500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, Io nom	-20		+70	°C
Derating	Vi nom, Io nom+51 to 71°C			2	%/°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, Io nom			95	% RH
Safety Standards	EN60950-1 approved				
EMI Conduction & Radiation	Compliance to EN55022				
EMS Immunity	Compliance to EN55024				
Dimension	L80 x W40 x H24MAX				mm
Cooling	Free air convection				

Part Number					
G	B	015	-	S	05
A	B	C	D	E	
A : Series					
B : Open Frame					
C : Output Watt					
D : Single Output					
E : Output Voltage					

Circuit Schematic



Markings and dimensions



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

Notes:
1.Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
2.Output connector mates with Molex housing 09-50-3041 and Molex 2478 series crimp terminal.

TN01	Model
PIN	Single
1	ACL
2	No PIN
3	ACN
TN02	
4	+Vo
5	+Vo
6	-Vo
7	-Vo

