

**FEATURES :**

- Universal Input 90~264VAC
- High Efficiency at 89% Typical
- Protection: Short Circuit /Overload/Over Voltage
- 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)	V	(mA)	(mV) max(note)	%(TYP)
GB40A-S03	19.8	3.3	6000	100	72
GB40A-S05	30.0	5	6000	100	78
GB40A-S09	39.6	9	4400	100	80
GB40A-S12	39.6	12	3300	150	85
GB40A-S15	40.0	15	2670	150	86
GB40A-S16	40.0	16	2500	150	86
GB40A-S24	40.0	24	1670	240	88
GB40A-S27	40.0	27	1480	240	88
GB40A-S36	40.0	36	1110	240	88
GB40A-S48	40.8	48	850	240	89

**Input Specifications**

Parameters	Conditions	Min	Typ	Max	Units
Rated input voltage	Vo, lo nom		100-240		Vac
Voltage Range	Vo, lo nom	90		264	Vac
Frequency		47	50/60	63	Hz
Inrush Current	At 100Vac			20	A
	At 240Vac			40	A
Input Fuse		VDE/UL/CCC FUSE 3.15A/250V			

YUAN DEAN SCIENTIFIC



AC-DC Converter

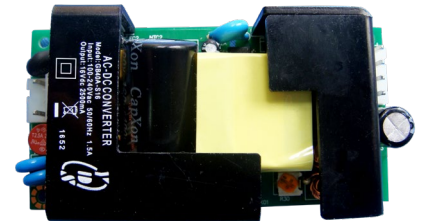
GB40A SERIES

40Watt

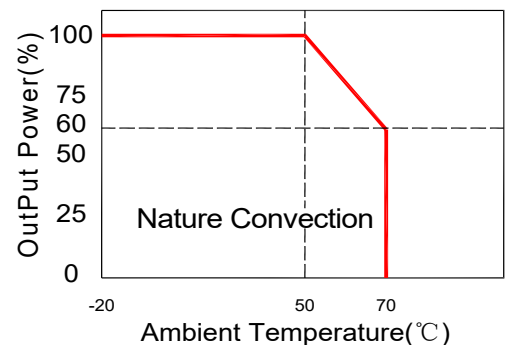
3KVac Isolated

Single Output

Open Frame



**Temperature Derating Graph**



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Rev:0 2019/12/09

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom			±3	%
	3.3V,5V Models				
Minimum Load	Vi nom	0			%
	12....48V Models			±2	%
Line Regulation	Io nom, Vi min...Vi max		±1		%
Load Regulation	Vi nom, Io min...Io nom		±2		%
Protection	Overload	115% -150% rated output power			
		Protection type: Recovers automatically after fault condition is removed			
	Over Voltage	120%-150% rated output Voltage			
Short circuit	Protection type: Shut off o/p voltage, re-power on to recover				
	Recovers automatically after fault condition is removed				

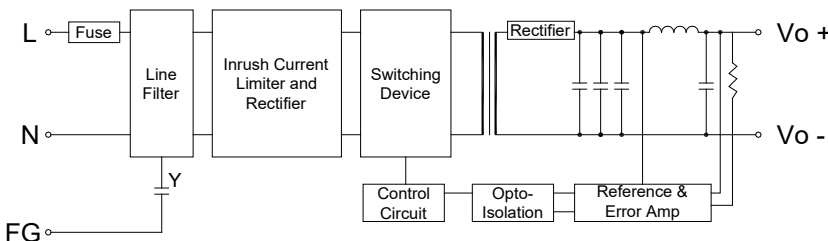
Note :

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.

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, @500Vdc	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	Design refer to EN62368-1				
EMI Conduction & Radiation	Design refer to EN55032				
EMS Immunity	Design refer to EN55024				
Dimensions	L101.60 x W50.80 x H31.0				mm
Cooling	Free air convection				

Circuit Schematic

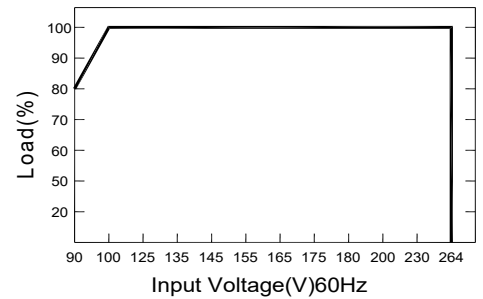


Part Number

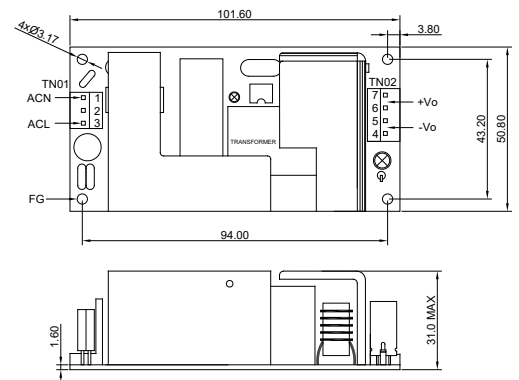
GB40A	-	S	05
A		B	C

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

Output Derating VS Input Voltage



Markings and Dimensions



UNIT: mm

Unless otherwise specified, all tolerances are ±0.50mm

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 Output
1	ACN
2	No PIN
3	ACL
TN02	
4	-Vo
5	-Vo
6	+Vo
7	+Vo

