

FEATURES :

- Universal input 90~264VAC
- High efficiency at 92% typical
- Protection: short circuit /overload/over voltage / over temperature
- Built-in active PFC function
- 5"x 3" miniature size
- No load power consumption <0.5W
- 3 years warranty

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Voltage	Output Current	Ripple & Noise	Efficiency	Output Power(W)
	V	MAX	mVp-p(Max) (note)	%(TYP)	Rated
GB150-S12	12	10.5A	200	90	126
GB150-S15	15	9 A	200	90	135
GB150-S24	24	6.25A	250	90	150
GB150-S36	36	4.17A	350	91	150
GB150-S48	48	3.125A	450	92	150

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated input voltage	Io nom		100-240		Vac
Voltage Range	Io nom	90		264	Vac
	Io nom	127		370	Vdc
Frequency		47	50/60	63	Hz
Inrush Current	At 115Vac			40	A
	At 230Vac			70	A
Input Over-Current Protection	VDE/UL/CCC FUSE 3.15A/250V				
Power Factor	PF > 0.95 / 230Vac PF > 0.98 / 115Vac at full load				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom			±2	%
Minimum Load	Vi nom	0			
Line Regulation	Io nom, Vi min...Vi max		±0.5		%
Load Regulation	Vi nom, Io min...Io nom		±1.0		%
Protection	Overload	105% -150% rated output power Protection type: Shut off o/p voltage, re-power on to recover			
	Over Voltage	115%-150% rated output Voltage Protection type: Shut off o/p voltage, re-power on to recover			
	Short circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed			
	Over temperature	Protection type: Shut off o/p voltage, re-power on to recover			

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

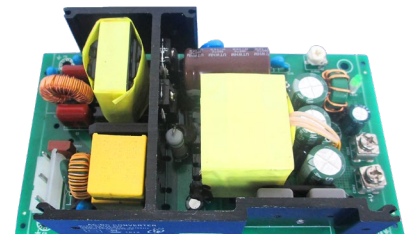
GB150 SERIES

150Watt

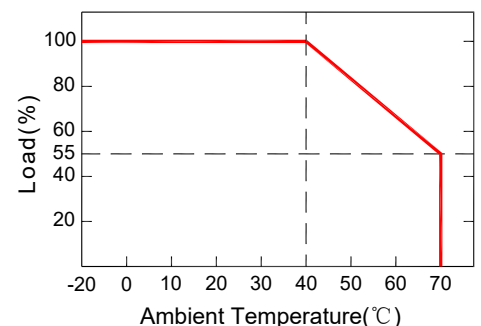
3KVac Isolated

Single Output

Open Frame



Derating Curve



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General Specifications

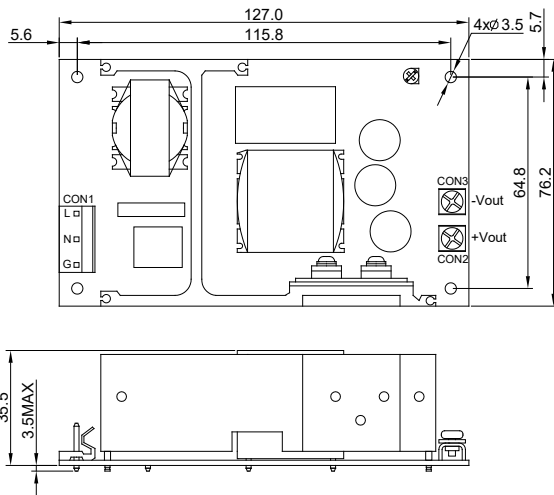
Parameters	Conditions	Min	Typ	Max	Units
MTBF	MIL-HDBK-217F(25°C)	100,000			Hrs
	Input To Output	3000V AC 5mA/5Secs			
Isolation Voltage	Input To Ground	2000V AC 5mA/5Secs			
	Output To Ground	500V AC 5mA/5Secs			
Size		127x76.2x35.5			mm
Weight			345		g
Operating Temperature	With Derating	-20		+70	°C
Storage Temperature		-45		+85	°C

Part Number

$$\frac{\text{GB150}}{\text{A}} - \frac{\text{S}}{\text{B}} \frac{\text{12}}{\text{C}}$$

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

Markings and Dimensions



UNIT: mm, unless otherwise specified, all tolerances are ±0.50

Notes:

- Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
- M4 Pan HD screw in 2 positions Torque to 8 lbs-in (90cNm) max.

CON1	Models
1	ACL
2	NO PIN
3	ACN
4	NO PIN
5	FG
CON2	
1	+Vout
CON3	
1	-Vout

Output Derating VS Input Voltage

