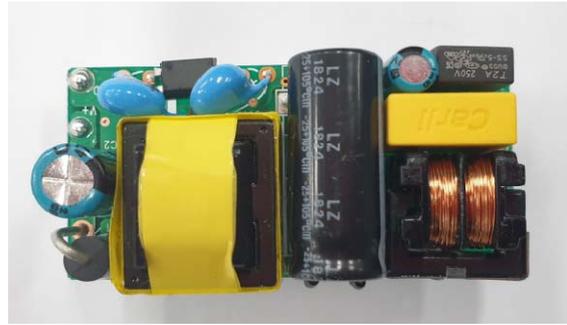


GB10S Universal 9-10 Watt Series

- 100-240 Vac Universal Input
- Single Output to 9W-10W
- Regulated Output with Low Ripple
- Meets Safety Agency Requirements
- Modified and Custom Designs Also Available
- Internal Style



Model	Output Voltage DC (V)	Maximum Current (A)	Maximum Watts (W)	Ripple & Noise Vp-p max. (mV)
GB10-S-05-X-XX	5	1.80	10.00	75
GB10-S-06-X-XX	5.9	1.50	9.85	75
GB10-S-07-X-XX	7.5	1.20	9.98	75
GB10-S-09-X-XX	9	1.00	11.97	90
GB10-S-12-X-XX	12	0.83	12.00	120
GB10-S-15-X-XX	15	0.67	12.00	150
GB10-S-24-X-XX	24	0.40	12.00	240

Input Specification

Input Voltage Range	100 to 240VAC -10%, +10%
Line Frequency	47 to 63 Hz
Input Current	0.3A max. at 90VAC Input
Protection	Internal Primary Current Fuse, Inrush Limiting

Output Specification

Line & Load Regulation (at End of Cable)	Line Regulation	+/- 1%
	Load Regulation	+/- 5%
Ripple & Noise & Noise	1% Vp-p max.	
Transient Response	0.5ms for 50% Load change Typ.	
Protection	Over-current Protection (Hiccup)	
	Over-voltage Protection (OVP)	
	Short Circuit Protection	

Environmental Specification

Operating Temperature	0°C to 50°C with no derating
Relative Humidity	5% to 95% non-condensing
Altitude	0 - 5,000 m
Cooling	Convectonal

Input Configuration



P Type

General Specification

Topology	Switching - Fixed Frequency Flyback
Leakage Current	Less than 100uA
Dielectric Withstand	4,500VAC Primary - Secondary
	1,500VAC Primary - F.G
	1,500VDC Secondary - F.G
Storage Temperature	-40 °C to 85 °C
Efficiency	Basic voltage : Minimum Average Efficiency in Active Mode $\geq [0.071 * \ln(P_{out}) - 0.0014 * P_{out}] + 0.67$
	Low voltage : Minimum Average Efficiency in Active Mode $\geq [0.0834 * \ln(P_{out}) - 0.0014 * P_{out}] + 0.609$
Hold-up Time	20ms min. @100VAC
EMI	Complies with EMC Directives
Max. Power in No-Load	$\leq 0.1W @ 115VAC \& 230VAC$
MTBF	250,000 Calculated Hrs
Safety	UL/EN/IEC60601-1, 3.1rd
	UL/EN/IEC62368-1
EMC	EN60601-1-1-2 /CISPR 11
	EN55032/CISPR 32
FCC	47 CFR FCC part 15 subpart B
Dimension	52L * 27W * 21H

Part Number Key

<u>GB10</u>	<u>X</u>	<u>05</u>	<u>X</u>	<u>XX</u>
Product Family Name	Model Configuration	Volt (DC)	Input Configuration	Customer(Model) Number