

BI010S Universal 10-12 Watt Series

- 100-240 Vac Universal Input
- Meets "ENERGY STAR" Program Requirements
- Single Output to 10W-12W
- Regulated Output with Low Ripple
- Meets Safety Agency Requirements
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs Also Available
- Desktop and Wall Plug Style with Interchangeable Blades



Model	Output Voltage DC (V)	Maximum Current (A)	Maximum Watts (W)	Ripple & Noise Vp-p max. (mV)
BI010-S-05-X	5	2.00	10.00	50
BI010-S-06-X	5.9	1.67	9.85	59
BI010-S-07-X	7.5	1.33	9.98	75
BI010-S-09-X	9	1.33	11.97	90
BI010-S-12-X	12	1.00	12.00	120
BI010-S-14-X	14	0.80	11.20	140
BI010-S-15-X	15	0.80	12.00	150
BI010-S-18-X	18	0.67	12.06	180
BI010-S-24-X	24	0.50	12.00	240
BI010-S-48-X	48	0.25	12.00	480

Input Specification	
Input Voltage Range	100 to 240VAC -10%, +10%
Line Frequency	47 to 63 Hz
Input Current	0.5A max. at 100VAC 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	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 40°C with no derating
Relative Humidity	5% to 95% non-condensing
Altitude	0 - 16,000 feet
Cooling	Convectional - Non vented case

Input Configuration

IEC320 C14 (F) IEC320 C8 (N) IEC320 C18 (Q) N.A./Japan /China (C) Europe /Korea (M, Kingdom) (G) United (H) Australia (H)

Specify the input configuration Code in your Order.

General Specification	
Topology	Switching - Fixed Frequency Flyback
Leakage Current	Less than 250uA
Dielectric Withstand	3,000VAC Primary - Secondary
	1,800VAC Primary - F.G
	500VDC Secondary - F.G
Storage Temperature	-30 °C to 85 °C
Efficiency	Basic voltage : Minimum Average Efficiency in Active Mode $\geq [0.071 * \ln(\text{Pout}) - 0.0014 * \text{P}(\text{out})] + 0.67$
	Low voltage : Minimum Average Efficiency in Active Mode $\geq [0.0834 * \ln(\text{Pout}) - 0.0014 * \text{P}(\text{out})] + 0.609$
Hold-up Time	20ms min. @100VAC
EMI	Complies with EMC Directives
Max. Power in No-Load	$\leq 0.1W$ @115AC & 230VAC
MTBF	250,00 Calculated Hrs Minimum.
Approvals and Safety Standards	UL60950-1, IEC/EN60950-1, K60950-1 EMC : EN55022 / 55024 / 61000
Case and Dimension (LP3)	3.3(L) x 1.81(W) x 1.26(H) [in]
	84(L) x 46(W) x 32(H) [mm]
	83(L) x 47(W) x 37(H) [mm] (Changeable)
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	20 AWG 1,500mm 2 Conductor.
	Other cable and connectors are available.

Part Number Key			
<u>BI010</u>	<u>S</u>	<u>05</u>	<u>X</u>
Product Family Name	Single Output	Volt (DC)	Input Configuration