

BM010S 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)
BM010-S-05-X	5	2.00	10.00	50
BM010-S-06-X	5.9	1.67	9.85	59
BM010-S-07-X	7.5	1.33	9.98	75
BM010-S-09-X	9	1.33	11.97	90
BM010-S-12-X	12	1.00	12.00	120
BM010-S-14-X	14	0.80	11.20	140
BM010-S-15-X	15	0.80	12.00	150
BM010-S-18-X	18	0.67	12.06	180
BM010-S-24-X	24	0.50	12.00	240
BM010-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	0.3A max. at 90VAC Input
Protection	Internal Primary Current Fuse, Inrush Limiting

Output Specification		
Line & Load Regulation (at End of Cable)	Line Regulation Load Regulation	+/- 1% +/- 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 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 (B)	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 100uA
Dielectric Withstand	4,500VAC 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	$\leq 0.1W @ 115VAC \& 230VAC$
MTBF	250,000 Calculated Hrs
Approvals and Safety Standards	UL60601-1, IEC/EN60601-1, K60950-1 EMC : EN60601-1-1-2 / EN55011
Case and Dimension	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>BM010</u>	<u>S</u>	<u>05</u>	<u>X</u>
Product Family Name	Single Output	Volt (DC)	Input Configuration