

BM030S Universal 20-30 Watt Series

- 100-240 Vac Universal Input
- Meets "ENERGY STAR" Program Requirements
- Single Output to 20W-30W
- 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



RoHS

Model	Output Voltage DC (V)	Maximum Current (A)	Maximum Watts (W)	Ripple & Noise Vp-p max. (mV)
BM030-S-05-X-XX	5	4.00	20.0	50
BM030-S-09-X-XX	9	3.00	27.0	90
BM030-S-12-X-XX	12	2.50	30.0	120
BM030-S-15-X-XX	15	2.00	30.0	160
BM030-S-18-X-XX	18	1.67	30.1	180
BM030-S-24-X-XX	24	1.33	31.9	240
BM030-S-48-X-XX	48	0.63	30.2	480

Input Specification	
Input Voltage Range	100 to 240VAC -10%, +10%
Line Frequency	47 to 63 Hz
Input Current	1.0A 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	1% Vp-p max.	
Transient Response	0.5ms for 50% Load change Typ.	
Protection	Over-current Protection	
	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	Convectonal - Non vented case

Input Configuration						
IEC320 C14 (F)	IEC320 C8 (N)	IEC320 C18 (Q)	N.A./Japan /China (B)	Europe /Korea (M)	United Kingdom (G)	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	-40 °C to 85 °C
Efficiency	Basic voltage : Minimum Average Efficiency in Active Mode ≥ [0.071 * ln(Pout)-0.0014*P(out)] + 0.67
	Low voltage : Minimum Average Efficiency in Active Mode ≥ [0.0834 * ln(Pout)-0.0014*P(out)] + 0.609
Hold-up Time	20ms min. @100VAC
EMI	Complies with EMC Directives
Max. Power in No-Load	≤ 0.1W@115VAC & 230VAC
MTBF	250,000 Calculated Hours Minimum.
Approvals and	UL60950-1, IEC/EN60950-1, K60950-1
Safety Standards	EMC : EN55022 / 55024 / 61000
Case and Dimension	3.74(L) x 2.13(W) x 1.26(H) [in]
	96.0(L) x 55.0(W) x 34.0(H) [mm]
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	SPT-1, 18 AWG, 2 Conductor,1500mm
	Other cable and connectors are available.

Part Number Key			
<u>BM030</u>	<u>S</u>	<u>12</u>	<u>X</u>
Product Family Name	Single Output	Volt (DC)	Input Configuration

