

BPIO20S Universal 10-20 Watt Series

- 100-240 Vac Universal Input
- Meets "ENERGY STAR" Program Requirements
- Single Output to 10W-20W
- 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 V _{p-p} max. (mV)
BPIO20-S-03-X-XX	3.3	3.00	9.9	50
BPIO20-S-05-X-XX	5	3.00	15.0	50
BPIO20-S-06-X-XX	6	2.50	15.0	60
BPIO20-S-07-X-XX	7.5	2.00	15.0	90
BPIO20-S-09-X-XX	9	2.00	18.0	90
BPIO20-S-12-X-XX	12	1.50	18.0	120
BPIO20-S-14-X-XX	14	1.20	16.8	140
BPIO20-S-15-X-XX	15	1.20	18.0	150
BPIO20-S-18-X-XX	18	1.00	18.0	180
BPIO20-S-24-X-XX	24	0.75	18.0	240
BPIO20-S-48-X-XX	48	0.40	19.2	480

Input Specification	
Input Voltage Range	100 to 240VAC -10%, +10%
Line Frequency	47 to 63 Hz
Input Current	0.5A max. at 90VAC Input
Protection	Internal Primary Current Fuse, Inrush Limiting

Output Specification		
Line & Load Regulation (at End of Cable)	Line Regulation	+/- 2%
	Load Regulation	+/- 5%
Ripple & Noise	1% V _{p-p} max.	
Transient Response	0.5ms for 50% Load change Typ.	
Protection	Over-current Protection (Hiccup)	
	Short Circuit Protection	

Environmental Specification	
Operating Temperature	0°C to 40°C with no derating
Relative Humidity	5% to 95% non-condensing
Altitude	0 - 10,000 feet
Cooling	Convectional - Non vented case

Input Configuration					
IEC320 C14 (F)	IEC320 C8 (N)	IEC320 C18 (Q)	N.A./Japar Europe /China (B)/Korea (M)	United Kingdom (G)	Australia (H)

Specify the input configuration Code in your Order.

Part Number Key				
BPIO20	S	05	X	XX
Product Family Name	Single Output	Volt (DC)	Input Configuration	Customer Number

General Specification	
Topology	Switching - Fixed Frequency Flyback
Leakage Current	Less than 250uA
Dielectric Withstand	4,242VDC Primary - Secondary
	2,150VDC Primary - F.G
	500VDC Secondary - F.G
Storage Temperature	-30 °C to 85 °C
Efficiency	Minimum Average Efficiency in Active Mode ≥[0.0626 * Ln (P _{no})] + 0.622
Hold-up Time	18ms min. @115VAC
EMI	Complies with EMC Directives
Max. Power in No-Load	≤ 0.3W
MTBF	61,320 Calculated Hours Minimum.
Approvals and Safety Standards	UL60950-1, IEC/EN60950-1, K60950-1 EMC : EN55022 / 55024 / 61000
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	18 AWG 1,500mm 2 Conductor.
	Other cable and connectors are available.

