

# BPI050S Universal 30-50 Watt Series

- 100-240 Vac Universal Input
- Meets "ENERGY STAR" Program Requirements
- Single Output to 30W-50W
- Regulated Output with Low Ripple
- Meets Safety Agency Requirements
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs Also Available
- Desktop Style



Model	Output Voltage DC (V)	Maximum Current (A)	Maximum Watts (W)	Ripple & Noise V <sub>p-p</sub> max. (mV)
BPI050-S-05-X-XX	5	6.00	30.0	50
BPI050-S-06-X-XX	6	5.00	30.0	60
BPI050-S-09-X-XX	9	5.00	45.0	90
BPI050-S-12-X-XX	12	4.20	50.4	120
BPI050-S-15-X-XX	15	3.36	50.4	150
BPI050-S-16-X-XX	16	3.15	50.4	160
BPI050-S-18-X-XX	18	2.80	50.4	180
BPI050-S-24-X-XX	24	2.10	50.4	240
BPI050-S-48-X-XX	48	1.10	52.8	480

Input Specification	
Input Voltage Range	100 to 240VAC -10%, +10%
Line Frequency	47 to 63 Hz
Input Current	1.5A 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% V <sub>p-p</sub> 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)

Specify the input configuration Code in your Order.

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 <sub>no</sub> )] + 0.622 or ≥87%
Hold-up Time	18ms min. @115VAC
EMI	Complies with EMC Directives
Max. Power in No-Load	≤ 0.5W
MTBF	100,000 Calculated Hours Minimum.
Approvals and Safety Standards	UL60950-1, IEC/EN60950-1, K60950-1 EMC : EN55022 / 55024 / 61000
Case and Dimension	4.20(L) x 2.60(W) x 1.46(H) [in] 107(L) x 66(W) x 37(H) [mm]
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	18 AWG 1,500mm 2 Conductor. Other cable and connectors are available.

Part Number Key				
<u>BPI050</u>	<u>S</u>	<u>12</u>	<u>X</u>	<u>XX</u>
Product Family Name	Single Output	Volt (DC)	Input Configuration	Customer Number

