

AC-DC Modules Meet Canada And Australia 347VAC, 50-60Hz Input Requirements



Bias Power's new BPH series of ½ and 1 watt switching power supply modules offer the smallest drop-in solution to comply with CSA CAN3-C235-83 for Canada as well as Australia and other 347VAC mains input countries. With an input range of 100-375VAC, the BPH series is world-market friendly. This is a "first of its kind" product providing a "one component" solution that allows engineers to easily design a whole new class of "universal" products. A patented* circuit design, incorporating a custom ASIC, effectively eliminates line EMI, so that no external input filtering is required.

The BPH is ideal for a variety of low-power and standby mode requirements in smart building applications when operation from 277VAC and 347VAC circuits is desired. Its unique "constant voltage/constant power" regulation from an 8 or 14VDC primary output has the ability to drive highly capacitive loads, including supercaps, as well as relays, solenoids, SSRs, indicating lights, op-amp drivers, zero-crossing detectors and RF/powerline-carrier transceivers. Additionally, it can be a source for isolated DC utility power which may be post-regulated with a linear regulator, LDO or DC/DC converter. Dual-output versions are also available with a secondary DC output of 3.3 or 5.0VDC to directly power microprocessors, sensors, logic functions and other elements requiring a low-ripple, tightly regulated supply. During standby operation, the no-load power consumption is <30 mW.

Applications for the BPH series are widespread, including lighting control, energy management, HVAC/R, remote and networked smart sensors, smart utility meters, power-line carrier devices, building automation, wired and wireless control devices, sub-metering, IR receivers, audio, video, security, commercial appliances and other high-reliability low-power applications.

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Bias modules are “regulatory ready” to shorten the design cycle and time-to-market. They have recognized safety compliance with UL/EN60950-1 2nd Edition and meet conducted EMI emissions to EN 55022, Class B and FCC Part 15, Class B without the use of external filtering. All modules are rated for at least 3kV isolation, are protected from overload, and can be short circuited indefinitely.

BPH ½ watt and 1 watt modules measure just 1.1” x 0.92” x 0.55”. Their extremely rugged construction, rated to IP66 and full-power operating temperature from -30 to +70°C, make them well suited for harsh environment applications. As a single-component, drop-in solution with >500,000 hours MTBF, a BPH module can greatly improve product reliability, while eliminating the need to source and inventory dozens of discrete components.

BPH Series Power Supplies are available for immediate sampling with 4-6 week delivery for production. Pricing begins at \$7.00 in OEM quantities. For more information, contact Bias Power, Inc., 1330 Busch Parkway, Buffalo Grove, IL 60089 Phone 847-215-2427; Fax 847-215-2914. sales@biaspower.com [1]
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