

# BIAS Standby Supply Module BPS200 Series

The BPS200 Standby Power Supply Module is an ideal replacement for current standby power applications in appliances and consumer electronics. This low-cost supply provides up to two watt of output power, nominal output of 6, 12 or 14 VDC (Vo), and an additional regulated output of 3.3, 5.0 or 12.0 VDC (Vr) to maintain standby functions such as powering an LED, microprocessor or remote control sensor. Incorporating a custom integrated circuit into a small package, the BIAS Standby Module provides an immediate “drop-in” solution, requiring no additional external components.

### Features

- Low Cost
- Single Component Solution
- Quick Time-To-Market
- Universal Input (85 to 265 VAC)
- Small Size

### Operating Specifications

(@120VAC / 60 Hz / 25°C / 12VDC Vo unless otherwise specified)

#### Electrical

Input Voltage Range	85 to 265 VAC (50/60Hz)
Output Power	2.0 W max
Efficiency	70% nom.
Output (Vo)	6, 12, 14 VDC nom.
Regulation Vo	+/- 5% (options B, C)
Ripple Vo (@120 Hz)	1V
Regulated Output (Vr)	3.3, 5.0, 12.0 VDC (option C)
Regulation Vr	+/- 0.1% (option C)
Ripple Vr (@120 Hz)	30 mV (option C)
No-load Consumption	20 mW typical
Isolation	3000 VAC

#### Thermal

Operating Temperature	-10 to 85° C
Operating Relative Humidity	20 – 90% RH
Storage Temperature	-40 to 105° C

#### Mechanical

Package Size (L x W x H)	TBD
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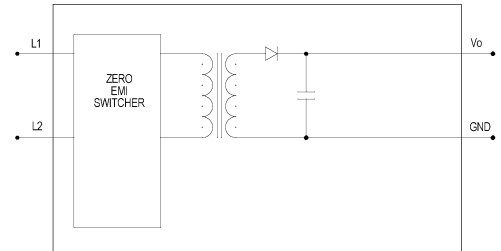
#### Safety

Safety Compliance <sup>1</sup>	UL1950 / EN60950 (VDE)
EMI Emissions <sup>1</sup>	EN 55011 / FCC Part 15-B
EFT/B Compliance <sup>1</sup>	IEC 1000-4-4 Level 4 <sup>2</sup>

<sup>1</sup> Certification pending

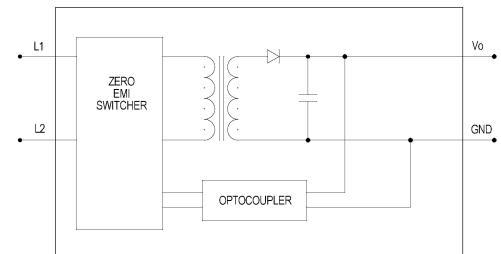
Specifications subject to change

<sup>2</sup> Utilizing external TVS device



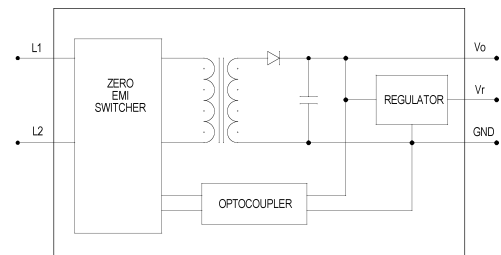
#### Option A: Constant Power

Lowest cost solution, best applied in constant load applications.



#### Option B: Demand Power

Designed for variable or intermittent load applications. Power is available upon demand and adjustable up to two watts.



#### Option C: Demand Power with Voltage Regulation

Provides dual isolated outputs for applications requiring a regulated output (Vr ±0.1%) in addition to the standard unregulated output.



## Part Number Designation

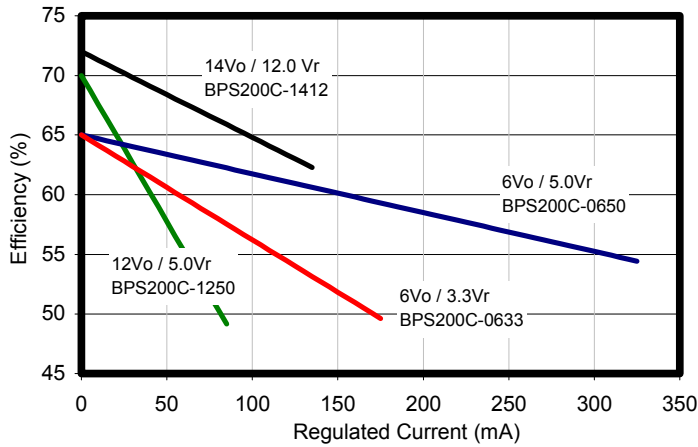
Model	Series	Power Configuration	Vo Output	Vr Reg. Output	Option
<b>BPS:</b> Standby Power Module	<b>200:</b> 2 Watt	<b>A:</b> Constant Power <b>B:</b> Demand Power <b>C:</b> Demand Power with Regulation	<b>06:</b> 6 VDC <b>12:</b> 12 VDC <b>14:</b> 14 VDC	<b>00:</b> N/A <b>33:</b> 3.3 VDC <b>50:</b> 5.0 VDC <b>12:</b> 12.0 VDC	

Ex: **BPS200C-1250**: standby module, 2W series with demand power adjustable up to 2W, Vo = 12V, Vr = 5.0V regulated

Part Number	Power Configuration	Vo	Vr	Option
BPS200A-0600	Constant Power	6 VDC	N/A	
BPS200A-1200		12 VDC		
BPS200A-1400		14 VDC		
BPS200B-0600	Demand Power	6 VDC	N/A	
BPS200B-1200		12 VDC		
BPS200B-1400		14 VDC		
BPS200C-0633	Demand Power with Regulation	6 VDC	3.3 VDC	
BPS200C-0650		6 VDC	5.0 VDC	
BPS200C-1250		12 VDC	5.0 VDC	
BPS200C-1412		14 VDC	12 VDC	

Custom configurations available; contact BIAS Power Technology for specific applications

## Efficiency Characteristics of Regulation



## Package Dimensions

## Regulation Operating Range

