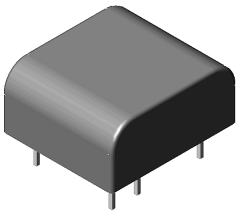
BIAS Power Technology, Inc.



BIAS Standby Supply Module
BPS100 Series

The BPS100 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 one 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 (0.4 in^3), 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 (0. 4in^3)**

Operating Specifications

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

Electrical

Input Voltage Range	85 to 265 VAC (50/60Hz)
Output Power	1.0 W max (.25 /.50 /.75 / 1.0W option A)
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 85º C
Operating Relative Humidity	20 – 90% RH
Storage Temperature[1]	-40 to 105º C

Mechanical

Package Size (L x W x H)	1.00 x 0.87 x 0.46 inches [25.7 x 22.1 x 11.7 mm]

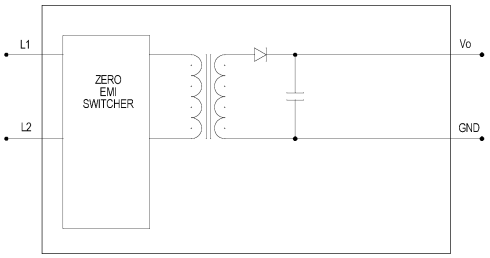
Safety

Safety Compliance[2]	UL1950 / EN60950 (VDE)
EMI Emissions[2]	EN 55011 / FCC Part 15-B
EFT Compliance[2]	IEC 1000-4-4, Level 4

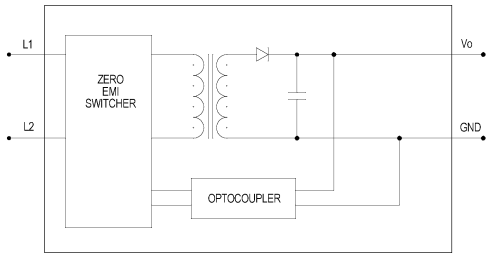
[1] Max 1000 hrs @ 105ºC

[2] Certification pending

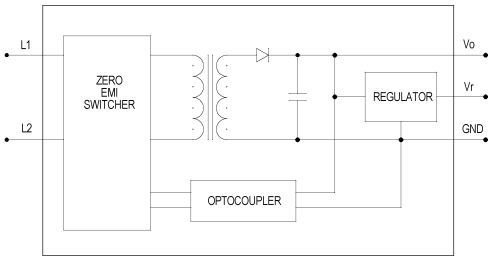
Specifications subject to change



Option A: Constant Power
Lowest cost solution, best applied in constant load applications. Available in ¼, ½, ¾ and 1 watt.



Option B: Demand Power
Designed for variable or intermittent load applications. Power is available upon demand and adjustable up to 1.0 watt.



Option C: Demand Power with Voltage Regulation
Provides dual isolated outputs for applications requiring a regulated output (V_r ±0.1%) in addition to the standard unregulated output.

BIAS Power Technology, Inc., 414 South Vermont Street, Palatine, Illinois 60067 USA
Phone: 888-772-7658 USA, 847-991-8516; Fax: 847-991-8526, www.biaspower.com

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Part Number Designation

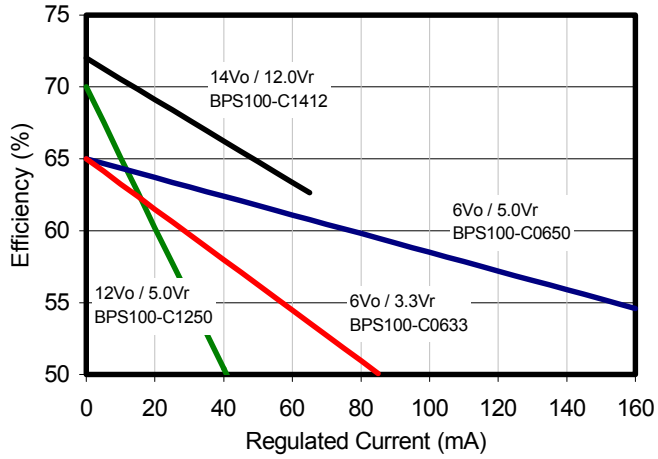
Model	Series	Power Configuration	Vo Output	Vr Reg. Output	Option
BPS: Standby Power Module	**100:** 1Watt	**A:** Constant Power **B:** Demand Power **C:** Demand Power with Regulation	**06:** 6 VDC **12:** 12 VDC **14:** 14 VDC	**00:** N/A **33:** 3.3 VDC **50:** 5.0 VDC **12:** 12.0 VDC	**025:** 1/4 W Constant Power **050:** 1/2 W Constant Power **075:** 3/4 W Constant Power **100:** 1 W Constant Power

Ex: **BPS100–C1250:** standby module, 1W series with demand power adjustable up to 1W, Vo = 12V, Vr = 5.0V regulated
BPS100-A0600-075: 1W series standby module, constant 3/4W power, output Vo = 6V (no regulated output)

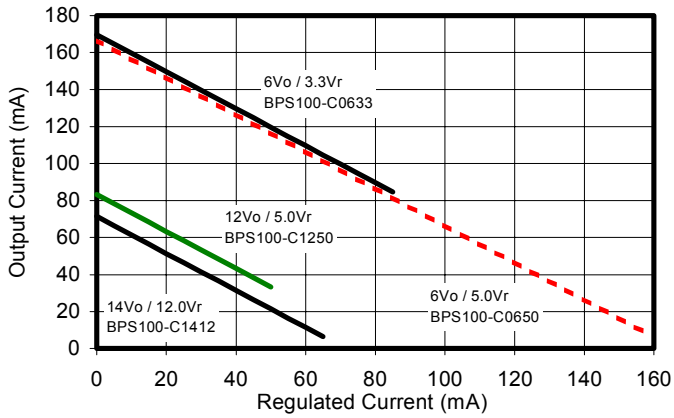
Part Number	Power Configuration	Vo	Vr	Option (-xxx)
BPS100-A0600-xxx	Constant Power	6 VDC	N/A	-025: 1/4 W Constant Power -050: 1/2 W Constant Power -075: 3/4 W Constant Power -100: 1 W Constant Power
BPS100-A1200-xxx		12 VDC		
BPS100-A1400-xxx		14 VDC		
BPS100-B0600	Demand Power	6 VDC	N/A	
BPS100-B1200		12 VDC		
BPS100-B1400		14 VDC		
BPS100-C0633	Demand Power with Regulation	6 VDC	3.3 VDC	
BPS100-C0650		6 VDC	5.0 VDC	
BPS100-C1250		12 VDC	5.0 VDC	
BPS100-C1412		14 VDC	12 VDC	

Custom configurations available; contact BIAS Power Technology for specific applications

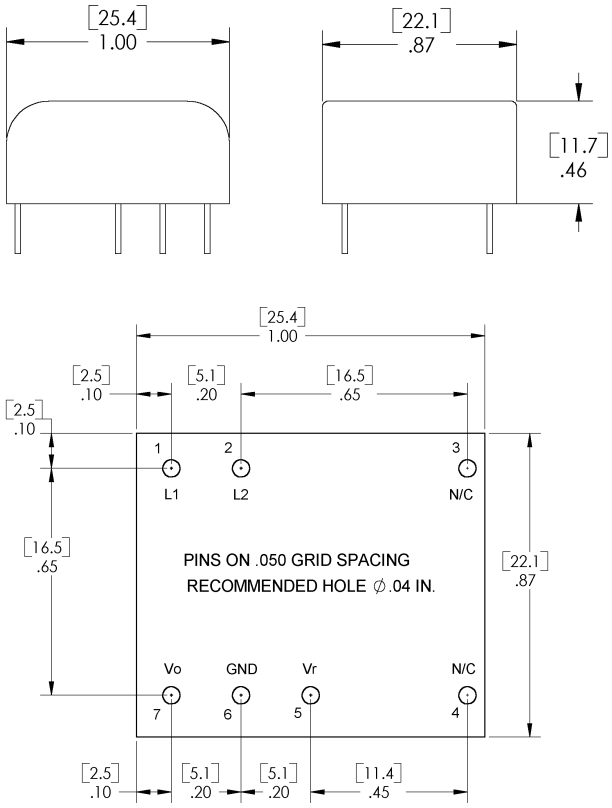
Efficiency Characteristics of Regulation



Regulation Operating Range



Package Dimensions



Top View
All dimensions [mm] inches

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