

brandenburg 568 series

PC Mounting Converter Modules
Output Voltages 300V to 6kV
3 Watts Power Rating



Features

- Unregulated convertor – output tracks input
- Miniature size for printed circuit mounting
- Low cost with high performance
- Low output ripple and noise
- 3500 Volt isolation primary to secondary
- Either terminal of output may be grounded
- Industry standard pin layout
- Full encapsulation for environmental protection
- Exceptional reliability

Description

The Brandenburg series 568 is a range of miniature power supply modules, designed to operate from a dc supply of 4 to 12 Volts (5 to 15 Volts for the units at the top of the range). An input filter circuit guards against feedback of ripple into the supply. High efficiency, high frequency power conversion is used, the high frequency making operation inaudible. The output voltage varies in proportion to the input voltage over the input range. All models in the range are capable of delivering 3 Watts of output power at their full output voltage settings, or proportionately less at lower voltages.

Full encapsulation is used to give complete protection against humidity and a wide operating temperature range. The modules are designed for printed circuit mounting by means of the connection pins.

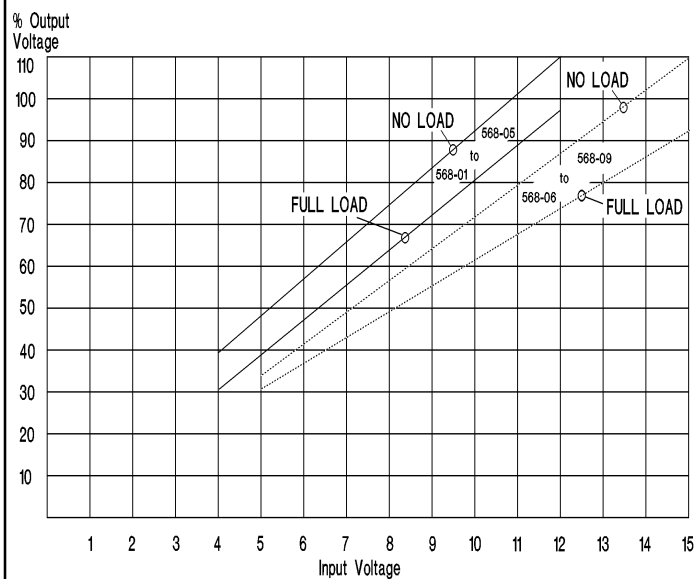
Ordering Information

Input Voltage Range	Output Voltage Range	Output Current (at max. voltage)	Output Ripple (pk-pk.) at full load	Ordering Code
4 – 12V dc	100V – 300V	10mA	0.01%	568-401
4 – 12V dc	150V – 500V	6mA	0.01%	568-402
4 – 12V dc	300V – 1.0kV	3mA	0.02%	568-403
4 – 12V dc	500V – 1.5kV	2mA	0.05%	568-404
4 – 12V dc	600V – 2.0kV	1.5mA	0.25%	568-405
5 – 15V dc	1.0kV – 3.0kV	1.0mA	0.25%	568-406
5 – 15V dc	1.3kV – 4.0kV	0.75mA	0.5%	568-407
5 – 15V dc	1.6kV – 5.0kV	0.6mA	0.5 %	568-408
5 – 15V dc	2.0kV – 6.0kV	0.5mA	0.5%	568-409



Electrical Specification

	568-401 to -405	568-406 to -409
Input voltage range	+4V to +12V dc	+5V to +15V dc
No load i/p current	125mA	150mA
Full load i/p current	350mA	310mA
Efficiency (full load)	65%	60%
Output voltage range	Output tracks input - see graph and Ordering Information	
Output current	see Ordering Information	
Output ripple	see Ordering Information	
Load regulation (typ)	+10% at N/L to -10% at F/L	
Output grounding	Floating output - either side may be grounded.	
Input/output isolation	3500V	
Protection	Proof against output short circuits of limited duration	



Environmental Specification

Operating temperature range	-10 to +60 deg.C
Storage temperature range	-25 to +70 deg.C
Fully encapsulated for protection against humidity.	

Mechanical Specification

Dimensions	63.5 x 38.1 x 21.6mm (plus 5.1mm for pins) (2.5" x 1.5" x 0.85" plus 0.2" for pins)
Weight	87g (3 oz) approx.
Packaging	Epoxy encapsulation.
Connections and mounting	Four pins for connection and mounting.

