

brandenburg 569 SERIES

Floating Output High Voltage PSU.

Total Power	3 Watt
Input Voltage	4 - 12 VDC 5 - 15 VDC
# of Outputs	Single

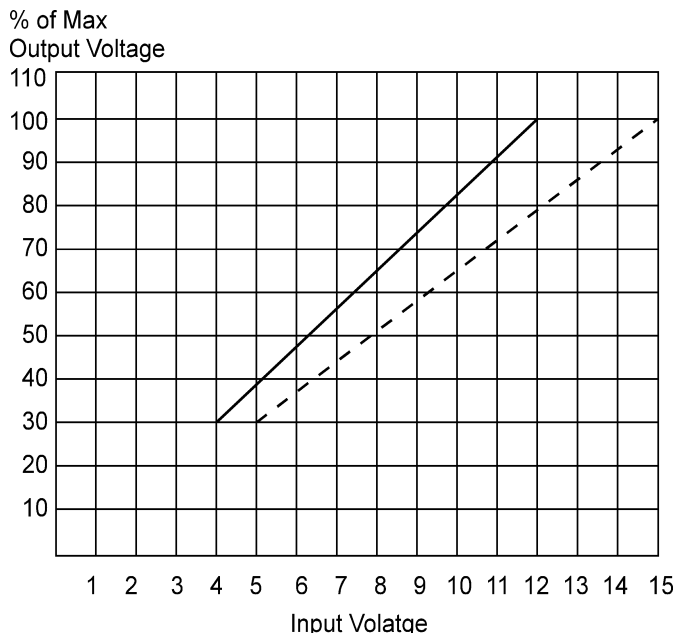


SPECIAL FEATURES

- Primary regulated convertor – output voltage tracks input
- Miniature size for printed circuit mounting
- Full encapsulation for environmental protection
- Low cost with high performance
- Either terminal of output may be grounded
- Industry standard pin layout
- Low output ripple and noise
- Short circuit & flashover protected

SAFETY

Designed to meet UL1950 and EN 61010-1



————— Models 569-406 to 405
- - - - - Models 569-406 to 409

ENVIRONMENTAL

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

ELECTRICAL SPECIFICATION

569-401 to 405

Input voltage range +4V to +12V dc
No load i/p current 85mA
Full load i/p current 335mA
Efficiency (full load) 75%

569-406 to 409

Input voltage range +5V to +15V dc
No load i/p current 100mA
Full load i/p current 290mA
Efficiency (full load) 70%

569-401 to 569-409

Output voltage range Output tracks input - see graph and Ordering Information
Output current see Ordering Information
Output ripple see Ordering Information
Load regulation $\leq \pm 5\%$ of rated output voltage between 0 & full load.
Line regulation N/A
Temperature Coeff't 200ppm/degC
Drift (Short term) 300ppm (Turn on to 1 min)
(Long term) 300ppm (1min to 1 hour)
Output grounding Floating output - either side may be grounded.
Isolation 3.5kV (Primary to secondary of the transformer, transformer operates at 1/2 output voltage).
Protection Proof against output short circuits and flash-over.
Proof against polarity reversal via internal shunt diode, external fuse
<math>< 2A (T)</math> required for full protection.

569 SERIES

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	0.005%	569-401
4 – 12V dc	150V – 500V	6mA	0.005%	569-402
4 – 12V dc	300V – 1.0kV	3mA	0.01%	569-403
4 – 12V dc	500V – 1.5kV	2mA	0.02%	569-404
4 – 12V dc	600V – 2.0kV	1.5mA	0.1%	569-405
5 – 15V dc	1.0kV – 3.0kV	1.0mA	0.1%	569-406
5 – 15V dc	1.3kV – 4.0kV	0.75mA	0.2%	569-407
5 – 15V dc	1.6kV – 5.0kV	0.6mA	0.2%	569-408
5 – 15V dc	2.0kV – 6.0kV	0.5mA	0.2%	569-409

MECHANICAL SPECIFICATION

Dimensions	569-401 to 405 63.5 x 38.1 x 18.5mm & 5.1mm for pins (2.5" x 1.5" x 0.73" & 0.2" pins)
Dimensions	569-406 to 409 63.5 x 38.1 x 20.5mm & 5.1mm for pins (2.5" x 1.5" x 0.81" & 0.2" pins)
Weight	<85 g (3 oz) approx.
Packaging	Painted metal case with epoxy encapsulate (Materials to UL94V0).
Connections & mounting	Four pins for connection mounting.

DRAWINGS

