GA Series

DC/DC

15 Watts

Single/Dual Outputs

- **4:1 ultra wide input range**
- **Remote shutdown**
- **100kHz switching frequency**
- **Continuous short circuit protection**
- **Six-sided shielding**

Specifications

INPUT

Voltage Range	20-72Vdc
Filtering	All Models
Reverse Polarity Protected	To Nominal Input Current External Fuse Required
Remote On/Off Control	All Models

OUTPUT

Voltage Tolerance	± 1%
Ripple and Noise	75mV pk-pk
Short Circuit Protection	Continuous Power Cycle
Temperature Coefficient	0.02% / °C

GENERAL

Regulation:	
Line	0.5%
Load	2.0%
Efficiency	80-85% (typ)
I/O Isolation	500 Vdc
Switching Frequency	100khz (typ)

ENVIRONMENTAL

Operating Temperature	-25°C to +60°C
Storage Temperature	-25°C to +105°C
Cooling	Free-air Convection

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

The GA series is an economically priced 15 watt DC/DC converter featuring ultra-wide input range, efficiencies to 85% and a continuous six-sided shielded case. Low ESR capacitors are used both on the input and the output(s) to minimize the conductive noise. Other key features include: overvoltage protection, output trim adjustability, TTL and CMOS compatible remote on/off, short circuit protection and small size. The GA series measures only 1.6” x 2.0” x 0.40” and offers a power density of 11.7 watts/cu. in.

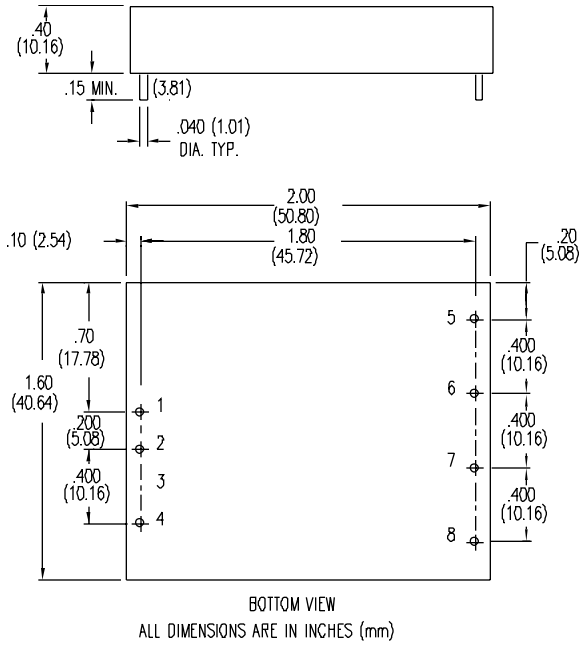
Applications

These units are ideally suited for telecommunications, distributed power systems, automatic test equipment, geosource test equipment and process control.

GA Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number
20-72 Vdc	5 Vdc	3000mA	GA11-300-48
20-72 Vdc	12 Vdc	1250mA	GA12-125-48
20-72 Vdc	15 Vdc	1000mA	GA13-100-48
20-72 Vdc	±12Vdc	±625mA	GA22-125-48
20-72 Vdc	±15Vdc	±500mA	GA23-100-48

Dimensions and Connections



NOTES:
1. Ripple measured with a 3.3 mf tantalum capacitor across each output.
2. Load regulation from full load to minimum load (25%).
3. The GA series requires an external filter capacitor across the input valued at 33µF @ 100Vdc, which must withstand 600ma of ripple current such as Sprague type 672D.
4. Metal case (shield) is connected to pin 1.

External Output Trimming: Output may be externally trimmed ±10%.

Remote ON/Off Control (pin 4) common referenced to - Input (pin 2).
On greater than 4 Vdc or open circuit
Off less than 1.2 Vdc

PIN CONNECTIONS
Single Output
1. +Input
2. -Input
3. No Pin
4. Remote On/Off
5. No Pin
6. +Output
7. Common
8. Trim

PIN CONNECTIONS
dual Outputs
1. +Input
2. -Input
3. No Pin
4. Remote On/Off
5. +Output
6. Common
7. -Output
8. Trim

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