Model	Current	Bus Voltage	Power
LA-100S	2A Cont. 4A Peak	+12V to +48V	100W Cont. 200W Peak

Description

The LA-100S is a compact, high performance, current-mode linear amplifier designed for driving single phase loads such as brush-type motors and voice coils. The LA-100S incorporates a class AB linear output stage for a low noise, zero distortion output. The amplifier is protected by internal (SOA) Safe-Operating-Area monitoring circuitry. It is powered by an external 12V to 48 VDC unipolar bus. The power section of this amplifier is constructed onto an insulated metal substrate circuit board which allows the highest power density available in today's marketplace. It comes standard with heat sink and fan. The amplifier has an integrated fan controller, so no external fan power/control is required. This amplifier can be purchased without the heat sink and fan for OEM applications.

Features

- Linear output control for quiet motion control
- Unipolar bus voltage +12VDC to +48 VDC
- 100 WATT continuous dissipation capability
- Up to 5KHz current loop bandwidth
- Low current drift
- Zero crossover distortion
- Safety operation area protection
- Compact design to save panel space
- Smart fan control

OUTPUT CONNECTIONS
Motor Phase (OUT+, OUT-)
Current monitor (2V/1A)
Temperature monitor (10mV/1 degree C)
Fault (active low, open drain)

INPUT CONNECTIONS
Current reference (+/-10V)
Enable (active low)

BANDWIDTH
5KHz maximum

LED INDICATOR
Power (Green indicating PS applied)
Enable (Green-Yellow indicating output is enabled)
Temperature (brightness indicating temperature level)
Fault (Red indicating fault)

FAULT PROTECTION
Safe operation area
Over temperature

MECHANICAL
Dimensions 3.74" x 3.0" x 2.97"
Weight 0.7 lb

WARRANTY
Varedan Technologies warrants this product to be free of defects for a period of one year after the date of shipment and according to the Term and Conditions of Sale.