

Brushless Servo Amplifiers: BD30A

Series BD30A Servo Amplifiers The BD30A Series PWM servo amplifiers are designed to drive brushless DC motors at a high switching frequency. They are fully protected against over-voltage, over-current, over-heating and short-circuits. All models interface with digital controllers that have a digital PWM output. PWM IN determines the output duty cycle. DIR IN determines the direction of rotation. A single red/green LED indicates operating status. The current limit can be set by DIP switches.

{mospagebreak title=Features}

Features

- Surface-mount technology
 - Small size, low cost, ease of use
 - Input signal isolation

 - Four quadrant regenerative operation
 - Hall sensor commutation

 - Agency Approvals: CE, UL
- Download (go directly to our Download Center or download here; some downloads require registration and separate login): [Data Sheet / Manual](#){mospagebreak title=Specifications} [Specifications Model](#)

Power Stage Specifications

BD30A8

BD25A20

DC Supply Voltage

20-80 VDC

40-190 VDC

Peak Current (2 sec. Max., internally limited)

± 30 A

± 25 A

Maximum Continuous Current (internally limited)

± 15 A

± 12.5 A

Maximum Load Inductance

200 µH

250 µH

Switching Frequency 5-20 KHz ±15%

Heatsink (base) Temperature Range

0° to +65°C, disables if > 65°C

Power Dissipation at Continuous Current 60 W

125 W

Over-voltage Shutdown (self-reset)

86 V

195 V

Bandwidth (load dependent)

2.5 KHz

Mechanical Specifications

Power Connector

Screw terminals

Signal Connector

Molex connector

Size 7.35 x 4.40 x 1.00 inches

186.7 x 111.7 x 25.4 mm

Weight

1.5 oz.

0.68 kg

