
B3163 Linear DC Voltage Regulator Model Selection

B **3** **1** **6** **3** - **A** **A** **A** - **B** **B** **B** - **C** **C** **C** - **D** **E**

MODEL SERIES: _____ **SUFFIX IDENTIFIER:** _____

B3163 = Regulated DC power supply, single output, dc voltage input.

AAA = RATED INPUT POWER SUPPLY VOLTAGE:

200 = 20 volts dc, maximum, with suffix CCC = 302.

300 = 30 volts dc, maximum, with suffix CCC = 102.

480 = 48 volts dc, maximum, with suffix BBB = 240 and suffix CCC = 102.

BBB = RATED OUTPUT VOLTAGE:

050 = 5 volts dc.

080 = 8 volts dc. Suffix D = A only.

100 = 10 volts dc. Suffix D = A only.

120 = 12 volts dc.

125 = 12.5 volts dc. Suffix D = A only.

150 = 15 volts dc.

240 = 24 volts dc. Suffix D = A only.

CCC = MAXIMUM OUTPUT CURRENT:

102 = 1000 ma. (1 amp).

302 = 3000 ma. (3 amps), Available with fixed, positive 5 volt dc output only, suffix BBB = 050, suffix D = F and suffix E = 0.

D = OUTPUT TYPE:

A = Adjustable, plus and minus 10% of nominal.

F = Fixed. Required with suffix CCC = 302.

E = OUTPUT VOLTAGE POLARITY:

0 = Positive output voltage only.

The input voltage must be positive.

1 = Negative output voltage only.

The input voltage must be negative.

NOTES:

- 1) The minimum **input voltage must be the same polarity** and must not be less than the rated (maximum for adjustable units) output voltage plus two volts dc.
- 2) The maximum output current is thermal limited. Forced air cooling may be required with high differential input to output voltages and/or ambient temperatures above 25 degree C. Detailed thermal calculations can be found in the model series B3163 data sheet. Maximum allowed input voltages at maximum output current and 25 degrees C. can be calculated from the formulas below.

Maximum input voltage = 10.64 + Maximum output voltage 1000 ma. output, free air.

Maximum input voltage = 3.967 + Maximum output voltage 3000 ma. output, free air.

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FOR TECHNICAL ASSISTANCE CONTACT
DATATRAN LABS, INC.
P.O. BOX 384
SUSSEX, NJ, 07461
TEL: (845)-856-4313 FAX (845) 858-2824