



BC Systems Inc

200 Belle Mead Rd. Setauket N.Y. 11733

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www.bcpowersys.com

BC Systems pln 94189-1



DESCRIPTION: This Generator voltage regulator is designed to comply with the requirements of MIL-R-23761/2B P/N M23761/2-1 and MIL-R-23761B.

This unit is a solid state direct current voltage regulator used to regulate and control aircraft engine driven 28VDC generator.

SPECIFICATION DATA:

REGULATION: +.5VDC of the nominal voltage setting in the range -of 26.5 to 28.5 VDC.

FIELD CURRENT: 8.0 AMP Continuous 12.0 AMP Overload

PARALLEL OPERATION: This unit is capable of parallel generator system operation with another M23761/2-1 regulator and generator.

EQUALIZER OPERATION: To maintain equal current sharing in parallel operation the equalizer circuit has the following characteristics.

EQUALIZER VOLTAGE TERMINALS 0 TO EB

0 to -1 v
0 to +.165 v
12 x Equalizer Volt Max

+ .165 to 1.0

GENERATOR VOLTAGE

= Nominal +.3V Max.
= Nominal - $\frac{16.7}{12} \times \frac{\text{Equalizer Volt Min}}{\text{Equalizer Volt Max}}$

= Nominal - 10% Min 8% Max

ADJUSTMENTS:

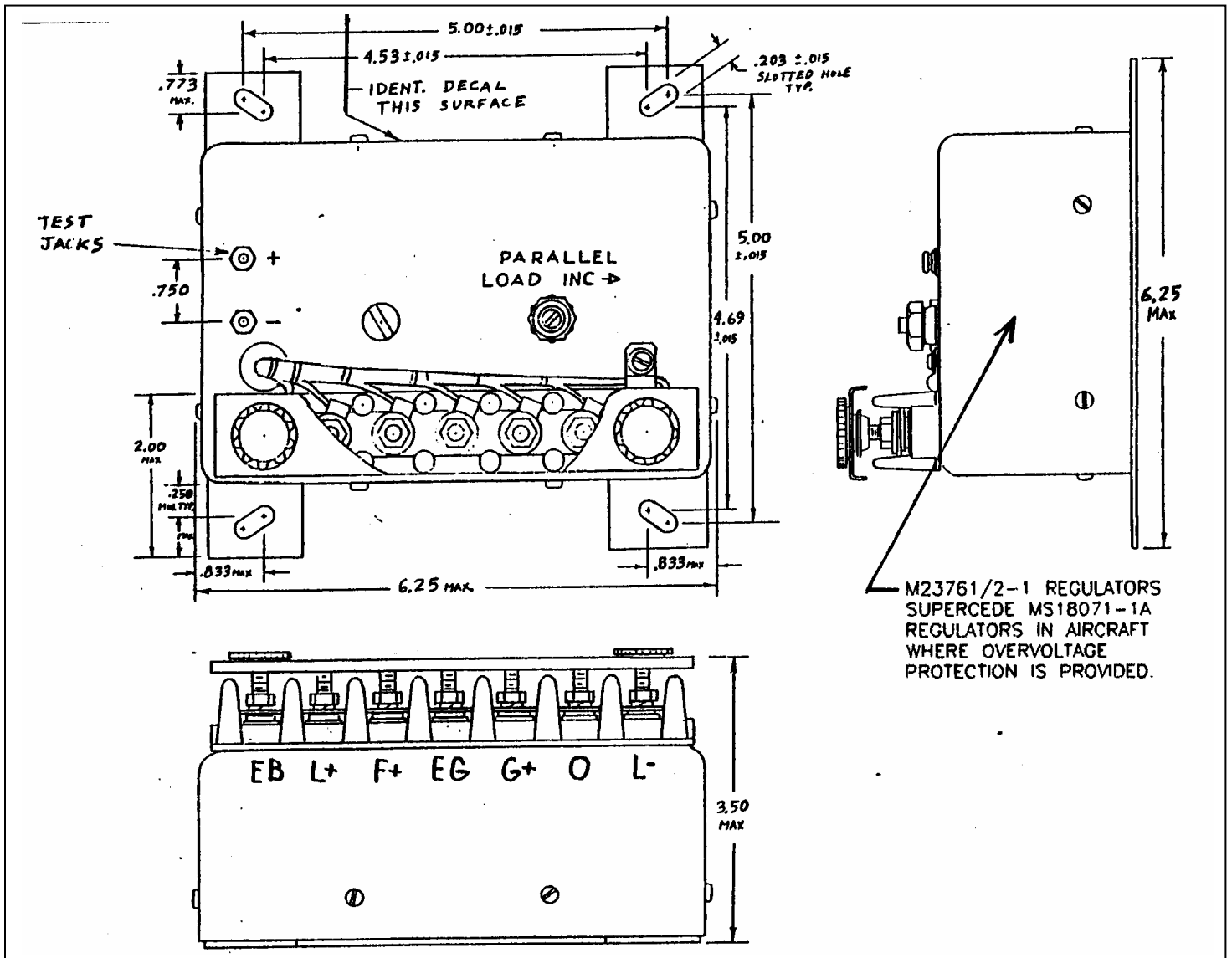
Equalizer: The unit contains an equalizer adjustment pot accessible at the top of the unit, clockwise rotation will increase the unit portion of load current sharing when in parallel operation.

Voltage: The unit contains a voltage adjustment which is accessible by removing a seal screw on the top of the unit. This will permit voltage adjustment of the generator in a range of 26.5 to 28.5 VDC.

Test Jacks: Two M39024/10 test jacks permit monitoring of the generator voltage directly at the regulator unit for test purposes.

Temperature: Ambient Operation -55c to +171c (class A) Non Operating -55c to +85c

Terminal Strip: The unit contains an MS27212-2-7 terminal strip used for connections to the generator system. It is supplied with an MS18029-25-7 cover and each terminal stud contains one each, MS14151-2 Flat Washer, MS35338-157 Lock Washer, and MS35650-304 Nut. Each stud can accommodate two terminal lugs per MIL-T-7928.



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