DURST

ENGINEERED TECHNOLOGIES

BATTERY LOAD TESTER

BT-3006MS & BT-3006MT

DATA SHEET & OPERATING INSTRUCTIONS

DURST
Since 1918

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OPERATING INSTRUCTIONS

The DURST models BT-3006MS & BT-3006MT are designed for testing 6, 12 & 24 volt batteries only. If 2 x l2 volt batteries are connected in series to create a 24 volt system, it is suggested the two 12 volt batteries be disconnected and tested separately as single 12 volt batteries.

- Clean battery terminals to assure good connections and determine Amp/Hour or the cold cranking amp rating of the battery to be tested.
- If the rating is not shown on battery refer to manufacturer's specifications.
- Turn the carbon pile rheostat knob anti-clockwise to a gentle stop. This will unload the rheostat to avoid sparking when connecting test leads.
- Switch to 6, 12 or 24 volt range to suit battery under test.
- Connect test leads to appropriate battery terminals. Red clamp to + (positive) battery and Black clamp to the - (negative) terminal. (Instrument is Reverse polarity protected.) Cooling Fan can be heard running.
- Voltage is displayed on three selected scales & read Actual Battery Voltage.
  - 0-8V scale each division = 0.1 of a volt
  - 0-16V scale each division = 0.2 of volt
  - 0-32V scale each division = 0.4 of volt
- Turning the rheostat knob clockwise, applies the correct load to the test battery.
- Load until the meter shows the correct Amp/hour rating or the Cold Cranking Amp rating of the Battery.
- The actual current drain from the battery is indicated on the Amp scale.
- The battery passes the test if voltage reads above minimum voltage arrows.

- Complete the test within 5- 10 seconds to obtain the best results. (Absolute max. 15 seconds)
- A good battery should read at least 80% of the no load voltage Minimum Volt readings on good Batteries are:
  - 4.75 volts for a 6 Volt Battery.
  - 9.5 Volts for a 12 Volt Battery and 19 Volts for a 24 Volt Battery.
- Quickly unload the carbon pile rheostat by turning the knob anti-clockwise until the Ammeter does not read.
- Never disconnect test leads when tester is in loaded position as this will cause sparking.

PHYSICAL AND DIMENSIONAL PROPERTIES

BT-3006MS

- Each unit weighs approximately 14 Kg
- Width 400 mm
- Length 250 mm
- Height 375 mm
- Cable Length 2.0 m
- LS-103 X 2 : Cable Size Primary 35mm²
- Heavy Duty 500A Clamps

BT-3006MT

- Each unit weighs approximately 20 Kg
- Width 450 mm
- Length 500 mm
- Height 1030 mm
- Cable Length 2.0 m
- LS-103 X 2 : Cable Size Primary 35mm²
- Heavy Duty 500A Clamps

PERFORMANCE

- Output Voltage 6Volts,12 Volts and 24 Volts
- Cranking Amps: CA 1000
- Cold Cranking Amps: CCA 2000
- Amp Hour Current Ah: 300

USES

- Suitable for UPS System
- Solar Power Systems
- Large Battery Banks
- Defence Applications