



# **BATTERY LOAD TESTER**

## **BT-3006MS & BT-3006MT**

### **DATA SHEET & OPERATING INSTRUCTIONS**



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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 12 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 35mm<sup>2</sup>
- › 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 35mm<sup>2</sup>
- › 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