

# TEST EQUIPMENT

## Dynamic Battery Analyzer BBA 64



- Tests 4V and 6V Batteries
- Powered by battery under test
- Microprocessor controlled
- Automatic selection of battery voltage

### Description of device and operation

The **BBA 64 Dynamic Battery Analyzer** is a microprocessor controlled, host powered instrument designed to test and evaluate the standby charged condition and dynamic capabilities under load of a 4 or 6 volt, sealed, lead-acid battery. It will also give an indication of the performance of the associated charging system.

A **static test** is initiated by connecting the test leads of the instrument to the battery to be analyzed. The **BBA 64** monitors battery and charging circuit voltage and indicates the results on an easy to read LED display.

#### Pre-load static test:

Charging system connected: *Charge voltage too high or open battery, charging normal, no charging voltage*

Battery only: *Charge too high or open cell, normal charge, insufficient voltage to test or shorted cell*

A microprocessor controlled **load test** sequence is then operator initiated with the battery disconnected from the charging circuit. The load current is based on the battery's rated AmpHour capacity. The battery condition is evaluated during the **load test** and latched at the termination.

#### Dynamic load test result:

Battery condition: *Good, marginal, bad*

### Specifications

#### ELECTRICAL

##### Input Voltage from battery:

3.5-8 VDC

##### Load Current:

30 ma. during static test, 3.5 Amps max. during dynamic test.

##### Dynamic load current:

1.0 to 3.5 Amps, dependent on A.H. selected.

##### Dynamic load time interval:

120 to 270 seconds, depending on battery voltage and A.H. selection (all intervals +/-1%)

#### MECHANICAL

##### Size:

3.75" wide X 4.75" long X 2.25" high.

##### Weight :

16 oz., including test leads (Shipping weight: 2lb.).

##### Input Terminals:

Standard Banana Jacks, color coded.

##### Finish:

MIL-spec black powercoat paint.

##### Operating temperature:

0 to 140 degrees F. (-17 to 50 degrees C.).

Overtemperature shutdown at 140 degrees F.

##### Test leads:

44 inch, high voltage cable, colored coded. Stranded, tinned, copper conductor with soldered connections. Plated alligator clips with color coded vinyl insulating boots. Gold plated right angle banana plugs.

#### GENERAL

##### Warranty:

Two years parts and labor. (See separate warranty statement for complete details.)

### Ordering Information

**BBA 64** Dynamic Battery Analyzer, 6 and 12V., includes test lead set

**BBAC** Carrying Case, hinged plastic

**BBA 108** Replacement Test Lead Kit

**Brooks Equipment**  
**Sales: (800) 826-3473**