

## TEST SET-SECONDARY BATTERY

### An Automatic Capacity Tester for Aircraft Batteries

**Statcon's** TEST SET- SECONDRY BATTERY is a fully solid state portable equipment designed to test the capacity and thus reliability of an Aircraft/Helicopter Battery. It is specially designed as per DGAQA specification to test both new as well as the battery under use. It can also be designed to test other special type of Batteries.



The equipment uses solid state load and microprocessor based controller to monitor the voltages, currents of the battery under test and display them along with its Ampere-Hour (Ah) capacity. No separate timer is needed to calculate Ah. It has universal usage i.e. it can be used for any type of Battery, be it silver zinc oxide, Ni-Cd or Lead Acid. Both rate of discharge as well as end of discharge voltages can be selected to test a Battery for different applications. Facility is also provided to discharge even single cell of Ni-Cd, Silver Zinc or Lead Acid types. It is a highly versatile unit being used by Indian Airforce for the last 8 years.

### TECHNICAL SPECIFICATIONS

Input Voltage	: 230V AC (180V-270V varying) 50Hz. $\pm$ 3Hz., 1 Phase
Battery Voltage Test range	: 1V/2V/6V/12V/24V or 28V DC
Discharge Current Range	: 0.2 to 50A settable with a potentiometer
Current Regulation	: Within $\pm$ 1% of full rating
Current Setting Accuracy	: Within $\pm$ 0.2A
Battery Cut-off	: Settable for 6V, 12V and 24V/28V independently up to second decimal point through keypad.
Protection	: Reversal of Battery under test. : Battery Deep Discharge : Unit Failure (by using a fuse) : Battery Wrong selection : Over Temperature
Metering	: Digital Voltmeter 4½ digits, accuracy 0.5% of FSR : Digital Ammeter 4½ digits, accuracy 0.5% of FSR
Standby Battery	: Provision for connection of 12V/40AH standby battery externally.

**Note** : Parameters given above are standard and can be changed without any prior intimation.

#### OTHER PRODUCTS:

- Ground Power Unit for Aircraft starting / Servicing.
- Portable GPU for Helicopters / Light Aircrafts.
- Helicopter Starting Rectifier.
- Frequency Converter upto 140kVA.
- Battery Discharger-Capacity Tester.
- Cell monitoring System for Aircraft Battery.
- Custom built High Power Rectifiers / Controls.
- Load Bank for Alternator / DG set testing.
- AC-DC & DC-DC Converters.
- Battery Chargers from 24V/48V/110V/220V upto 1500A.
- Micro Controller based Battery Chargers.
- Integrated Power Supply for Railway Signalling.
- SMPS based chargers for Telecom (48V) & Power Sector (110V / 220V).
- Embedded System based product development.

Statcon Power Controls Ltd.