EVERON

INTELLIGENT BATTERY TEST STATION

Introduction:

Battery Testing is an important part of Battery Business. With the rising popularity of Lithium Batteries, Capacity and Protection Assessment of Lithium Battery are extremely critical. Automated Computer Aided, precision Cycle Life Testing and Report Generation is needed.

Everon IBTS is an intelligent solution for Precision Testing of Batteries under controlled charging and discharging parameters. A 12 V Battery is subjected to user defined Charging and Discharging Profile. Cumulative AH delivered to the battery is monitored over a PC based software program and similarly cumulative AH recovered from the battery is monitored. Battery Charging and Discharging properties are computed in a windows based software program. Battery Test Reports under different conditions are published in a text file along with graphical representations with respect to pre-set parameters and time.

Salient Features:

- **User settable for Charge and Discharge Parameters**
- **Charging current from 0 – 20 A**
- **Battery Boost, Absorption and Float Voltage Levels**
- **Discharge Current 0 – 20 A.**
- **Discharge Time HH:MM:SS**
- **Battery Low Cut-off Level**
- **Temperature Cut-off Level**
- **User Commands for Start, Stop, Pause, Calibration etc.**
- **Download and Print Test Reports**
- **Assign Reference/Job Number**
- **Select and Create Data file Title**
- **Auto / Manual Operation**
- **Cyclic or Manual Operating Modes.**
- **Set Number of Cycles and Cooling Time.**

SPECIFICATIONS:

Sl. No.	Description	Parameter
1.	Nominal Battery Voltage	12.0 V +/- 10%
2.	Max Charging Current	20.0 V
3.	Current Settability	0 – 20 A +/- 0.1 A
4	Ripple in output	100 mV P-P
5.	Charging Current Stability	+/- 0.3 A
6.	Measurements	Mains Voltage, Battery Voltage, Charging Current /Discharging Current, Room Temperature, Battery Temperature, Time Count in Hours : Minutes : Seconds, Mode of Charge, Start, Stop
7.	Measurement Accuracy	+/- 1% of FSD
8.	Display	4 Line LCD Display showing all measured values.
9.	Interface	PC interface using USB port
10.	User Programmability	Windows Based PC/ Terminal
11.	Database	PC Hard Disk/SSD/Pen Drive
12.	Reports	Printable and Display reports in .Txt and Graphical Formats