ITS5300 Battery Test System

Operation Guidance
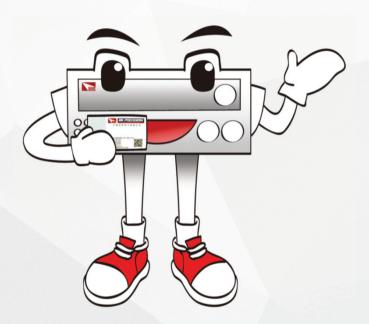
ITS5300 Introduction

ITS5300 Battery Charge & Discharge Test System is designed for testing the performances of all kinds (lead, NI-MH and lithium batteries, supercapacitor, hydrogen cell,etc),which can simulate electromobiles's requirements on battery pack under a series of equivalent operating conditions.

Applications

➢Battery charge/discharge performance testing
➢Battery cycle life testing
➢Battery capacity testing
➢Production test

Appearance

ITECH

Front Panel

Hardware configuration:

Power supply for charge-------IT6952A ((60V/25A/600W)

Electronic Load for discharge ----------
IT8513C+(120V/120A/600W)

Total: 8CH

Above configuration is applicable for basic battery charge-discharge test. To help engineer analyses the battery capacity,IV curve and data logging.

More details, please refer to the user manual.

Wiring Diagram----Mains Input

Connection requirement for AC input terminal:

AC input: **L1,L2,L3,N,PE**

Wire diameter**: 6mm²**

The cable which connects cabinet with power grid is a standard accessory.

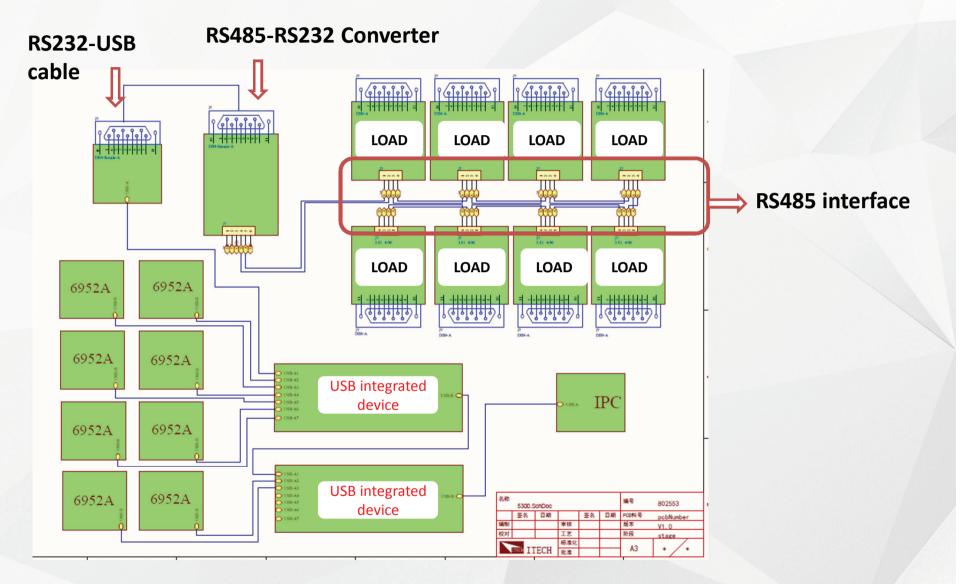Connect to distribution box,or the laboratory has the socket as below.

Communicaiton Connection

Communicaiton Connection

Instruction:

Power supply: Communicating with PC via USB interface
Utilize a USB cable to connect each IT6952A equipment with "USB intergrated device".

Electronic Load: Communicating with PC via RS485 interface.
Because PC do not has RS485 interface,so from the diagram of former page,you can find that we switch the RS485 interface to USB interface via "RS485-RS232" and "RS232-USB" converter.
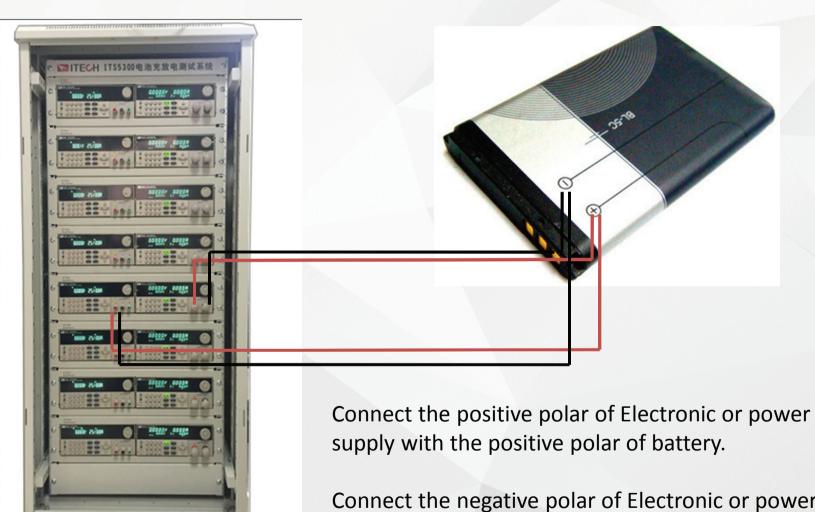
We have finished most connection work,such as RS485 connection and USB calbe connection before system out of factory.

* If any part is loosened during the transportation, please check and restore it according to the communication connection schematic diagram.
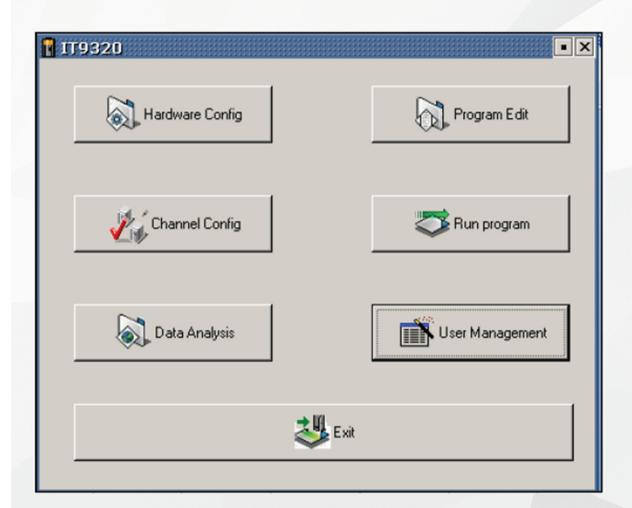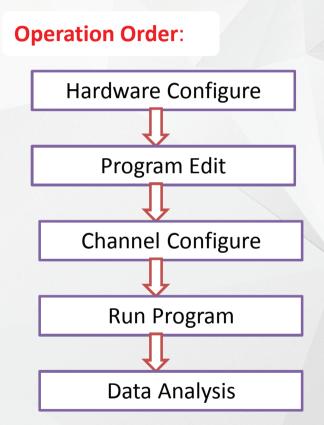
Connection with Battery

Connect the positive polar of Electronic or power supply with the positive polar of battery.

Connect the negative polar of Electronic or power supply with the negative polar of battery.

Software Operation Guidance

Operation Order:

Hardware Configure
↓
Program Edit
↓
Channel Configure
↓
Run Program
↓
Data Analysis

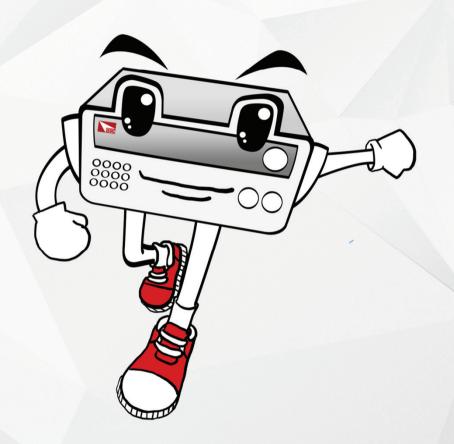Please according the operation order to build and run a battery test program.About detailed setting, please refer to the ITS5300 system operation vedio.

Thanks

Website : www.itechate.kr