# DSS -7000

## BATTERY DIAGNOSTIC SERVICE SYSTEM

# The Future of Battery Management

As the complexity of battery and electrical systems continue to evolve,diagnostic technology must be able to keep pace.

The DSS-7000 Battery Diagnostic Service system answers the challenge posted by contemporary and future vehicles including capabilities for new battery and system types,new business procedure amd a generation of service technicians familiar with app-based technology.

The DSS-7000 enables you to broaden your services expertise by providing the technology to handle the complex challenges of servicing current and future electrified vehicles.

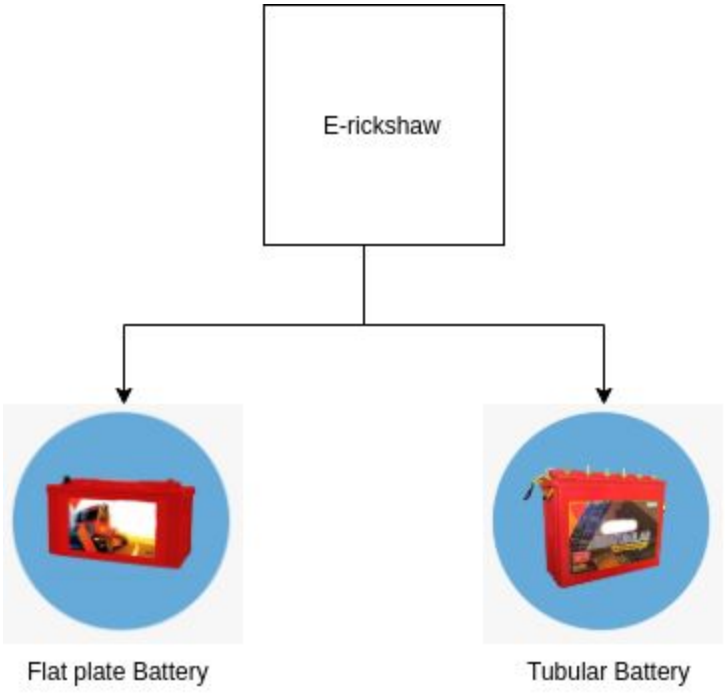
## Features

- Flexible technology adaptable to future batteries and systems
- Wireless communication supports end-to -end communication and complete battery management
- Enhanced battery diagnostics deliver more decisive results,with fewer charge and retest decisions

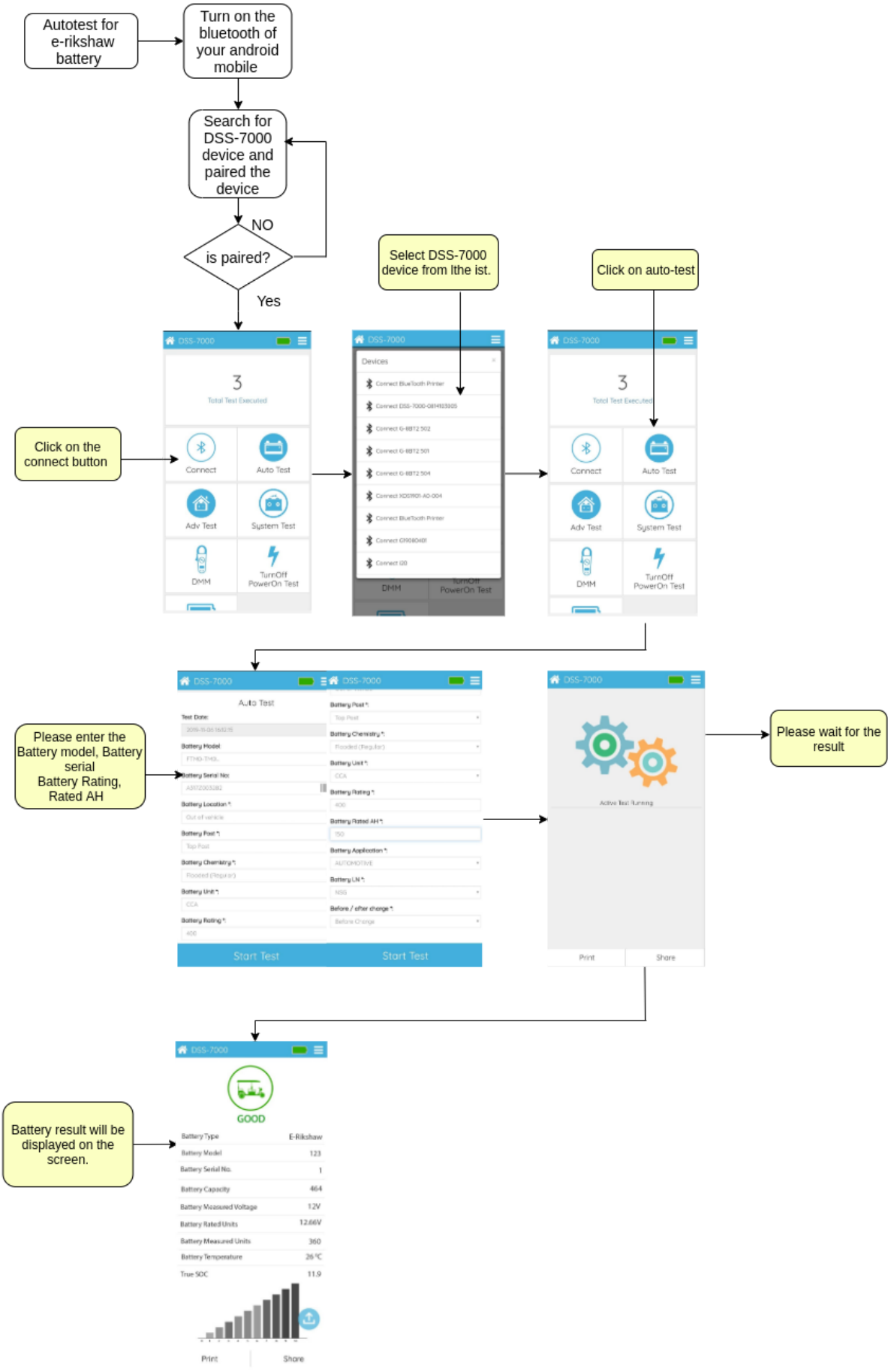
**Electric rickshaws** have been becoming more popular in some cities since 2008 as an alternative to auto rickshaws and pulled rickshaws because of their low fuel cost, and less human effort compared to pulled rickshaws. They are being widely accepted as an alternative to petrol/diesel/CNG auto rickshaws.

There are two types of e-rickshaw battery.

- Flat Plate Battery
- Tubular Battery

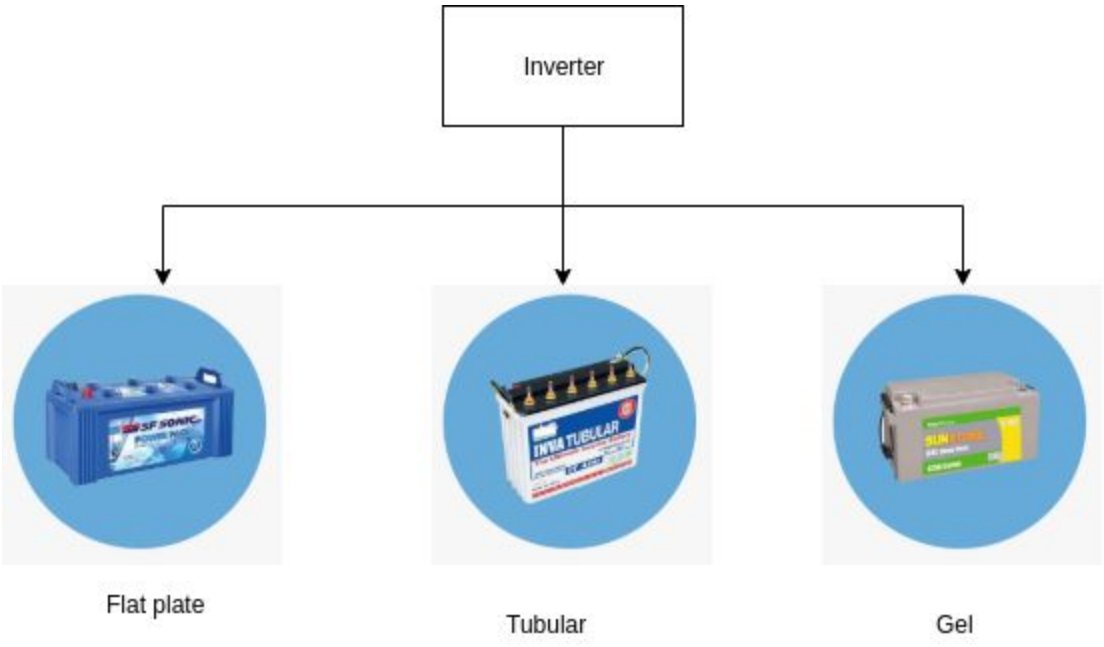


# e-Rickshaw Battery Test Flow

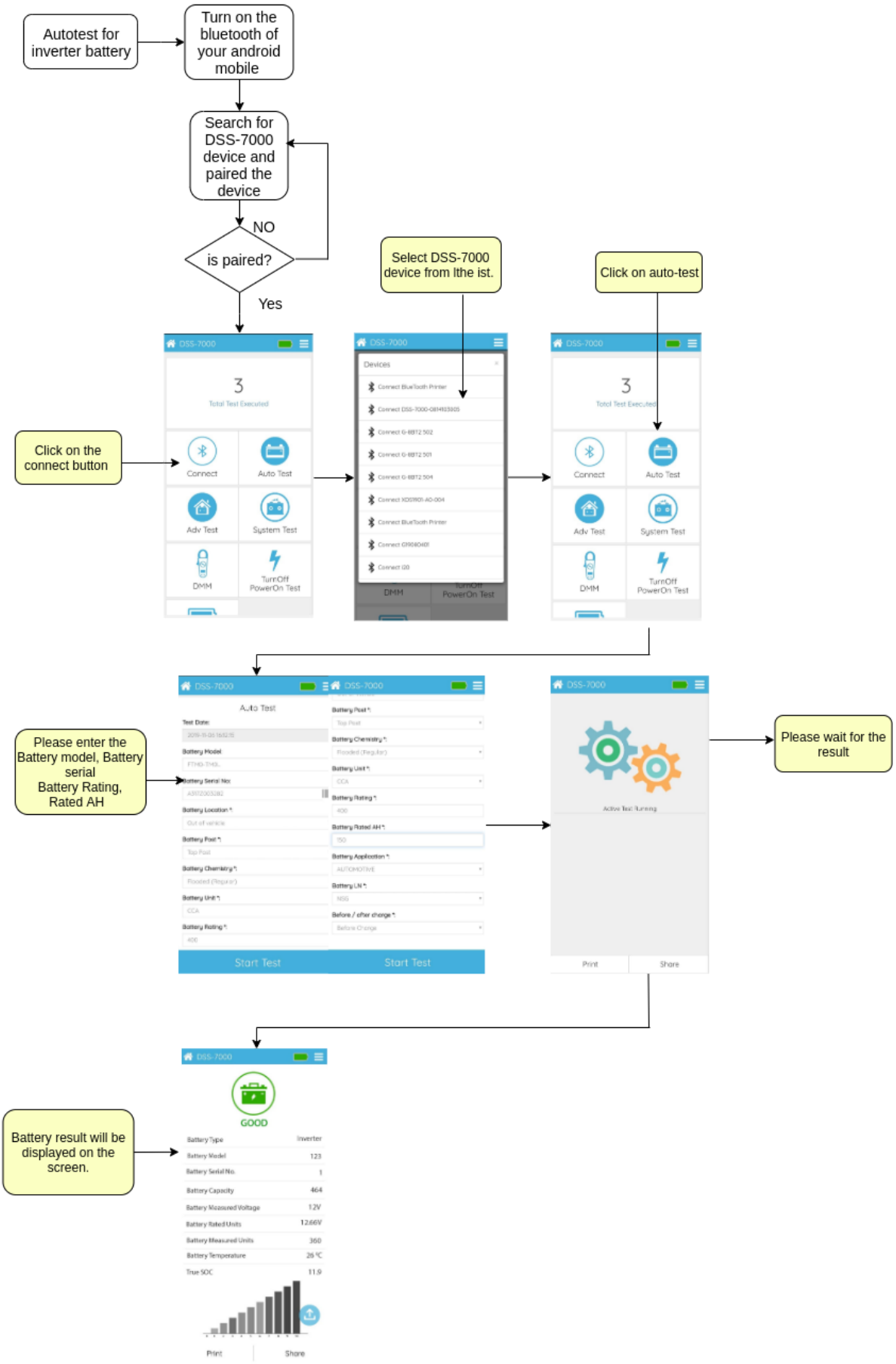


Inverter batteries are designed to provide a small amount of current consistently for longer durations of time.
The Inverter Batteries consist of lower number of plates which are much thinner as compared to auto batteries. The electrolyte volume of the inverter batteries is more so that the chemical reaction takes more time to produce current. This makes Inverter Batteries to provide a consistent amount of current for extended periods.
There are three types of inverter battery.

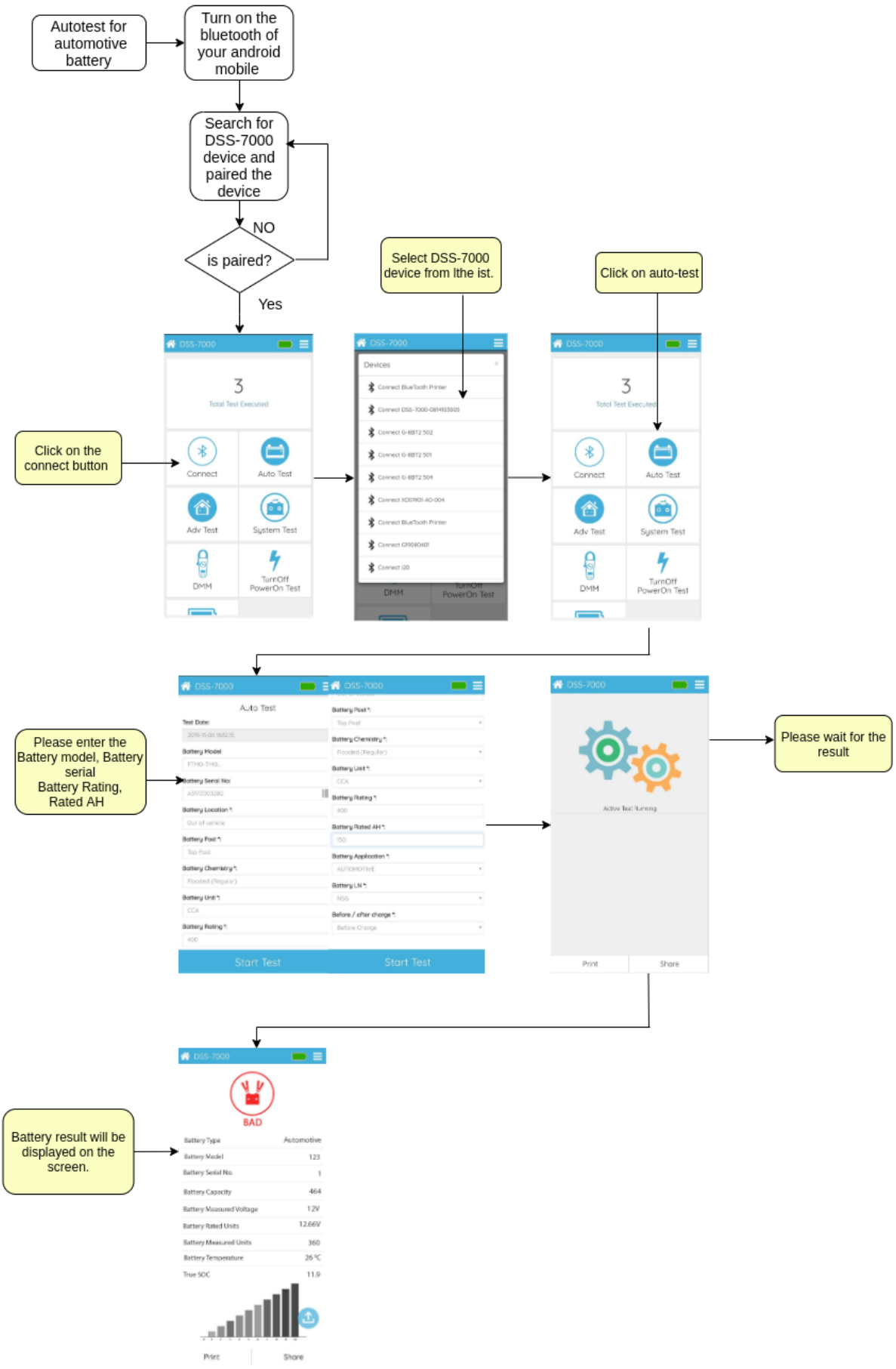
- Flat Plate Battery
- Tubular Battery
- Gel Battery



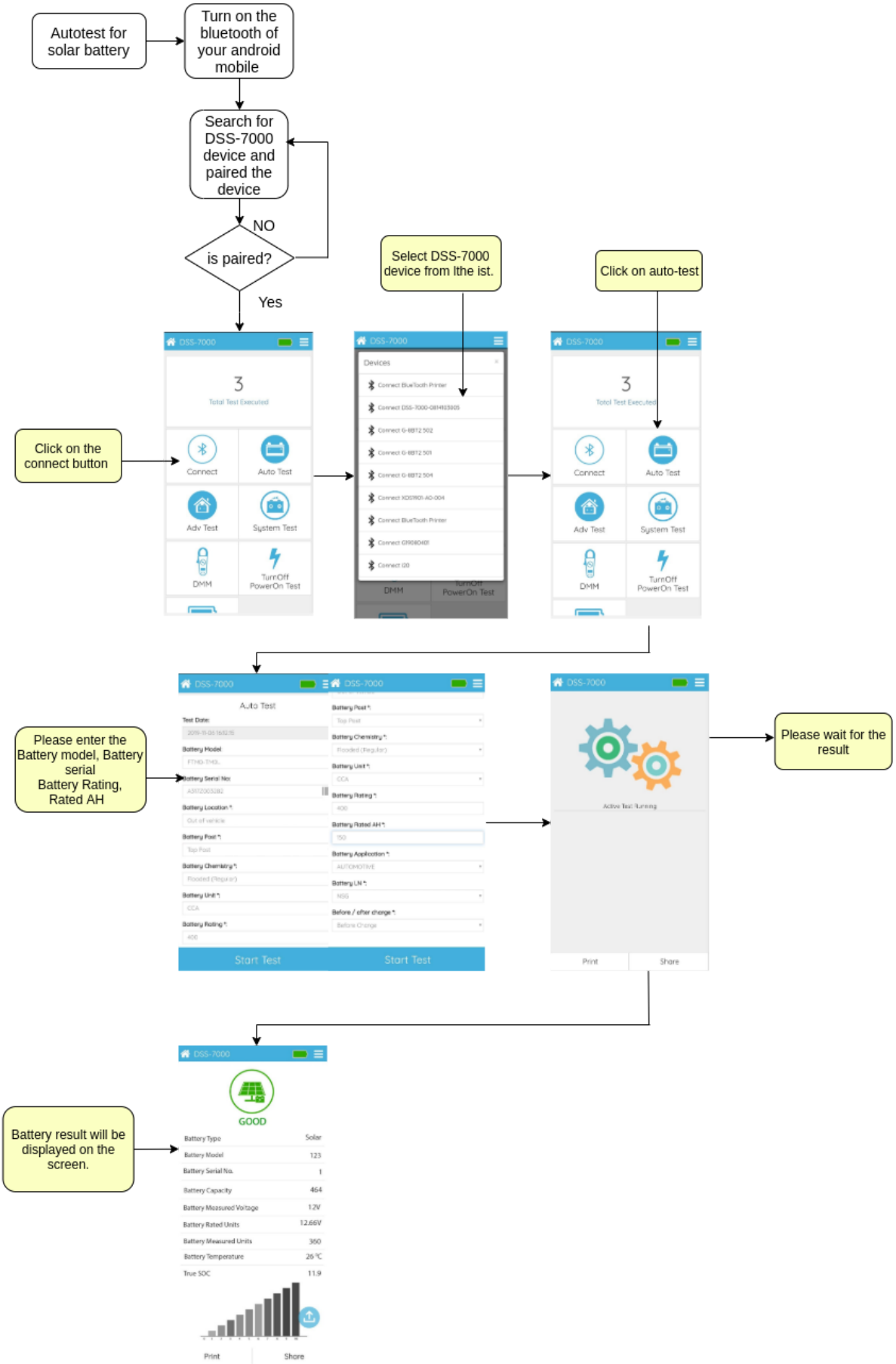
# Inverter Battery Test Flow



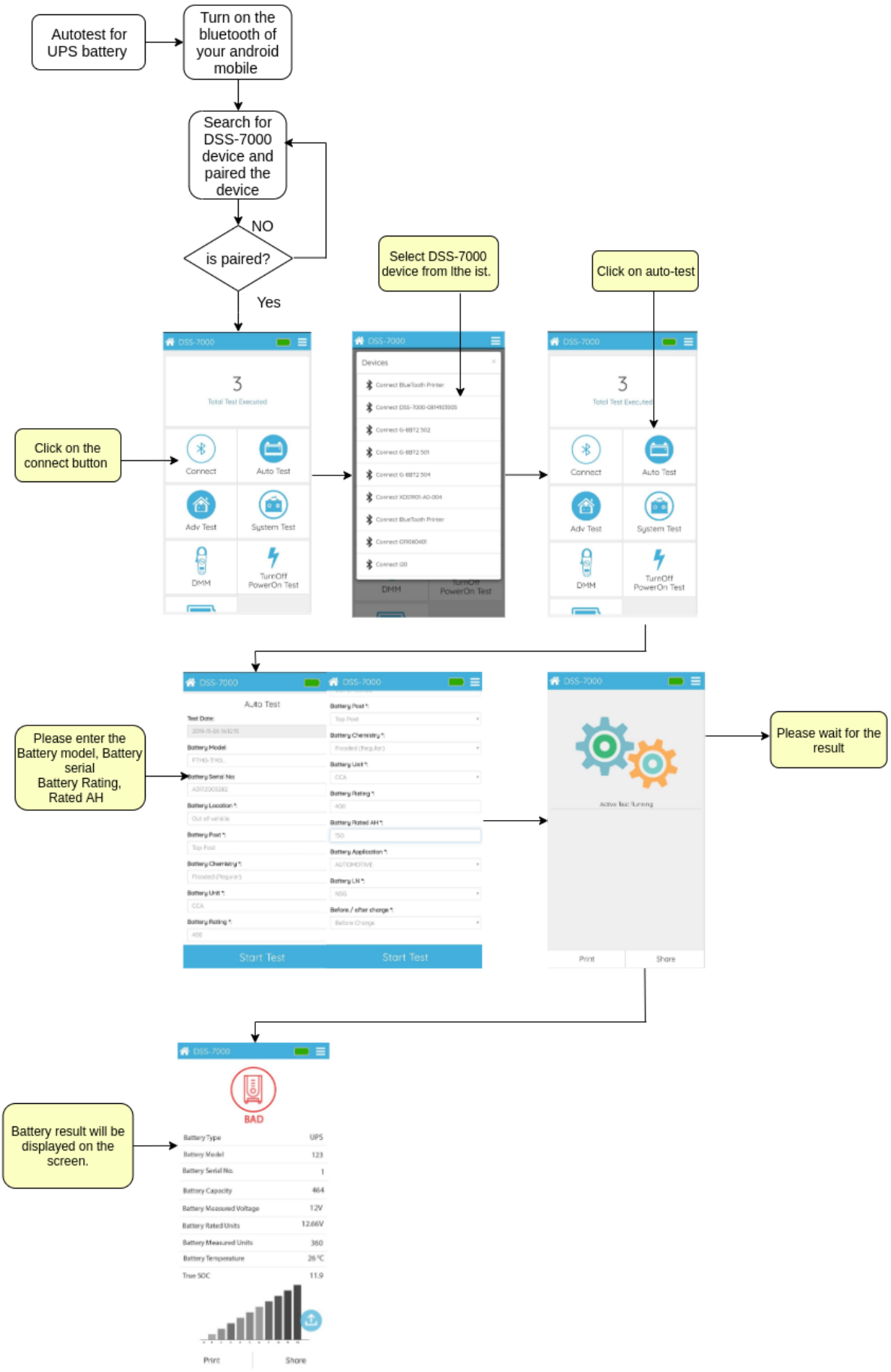
# Automotive Battrey Test Flow



# Solar Battery Test Flow



# UPS Battery Test Flow



## Sharing Process:-

There are two options for getting test result of battery :

1.Using Mobile APP

Test the battery with the help of above process. Click on the share button of result page and select the app to which data should share.Refer fig.1.1

2.Get print copy of result

Test the battery with the help of above process. Click on the share button of result page and select the Thermal printer app.You will get the print of result with the help of thermal printer.Refer fig.1.1

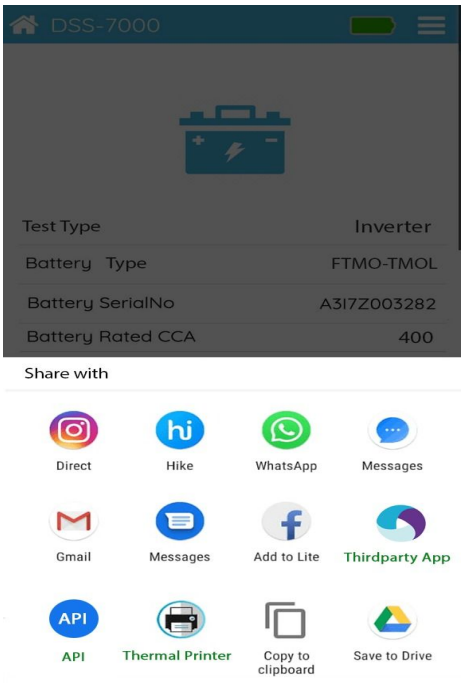



Fig.1.1

## DSS-7000 to BIS (Battery information system) interfacing process:-

BIS automatically captures every battery test done by DSS-7000 and many more devices.This transfer of data between DSS to BIS is a  seamless interface.
Refer fig.1.2 to understand the flow of data from Diagnostic device/ mobile app to BIS .

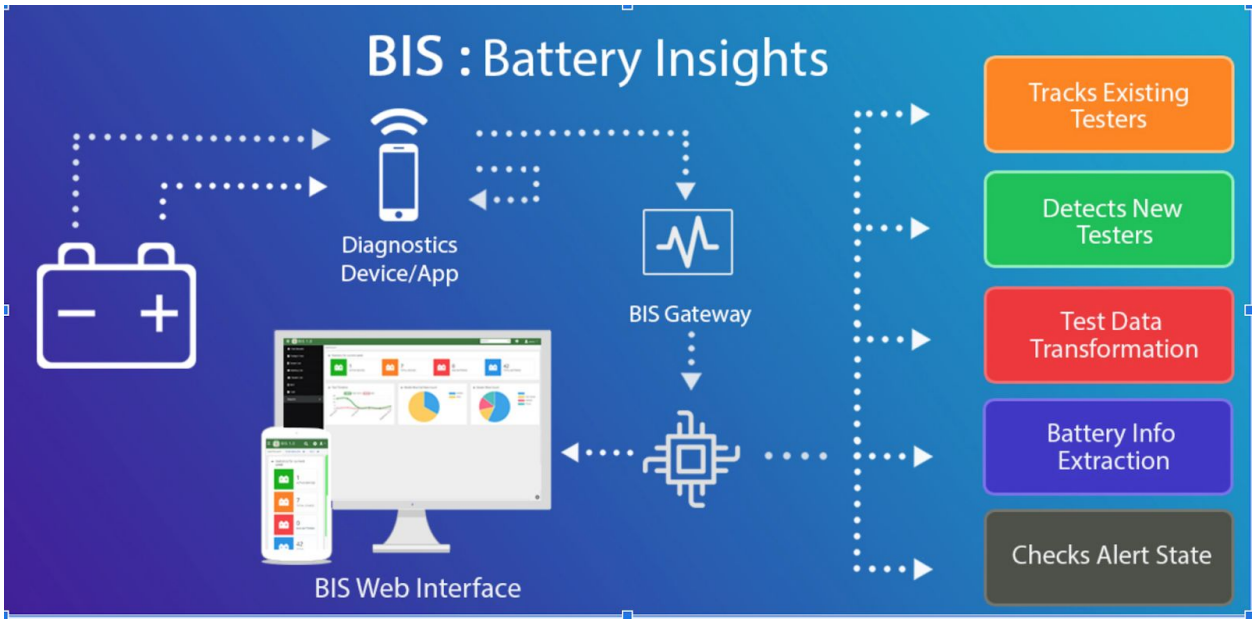



Fig.1.2

**Procedure to transfer data from DSS-7000 mobile app to BIS:-**

- Connect Diagnostic device to mobile App.
- Follow the entire test procedure, the data of the tested battery automatically gets uploaded on the BIS software system.
- Data of the test can be seen in the test page of the BIS system as shown in the figure(fig 1.3).

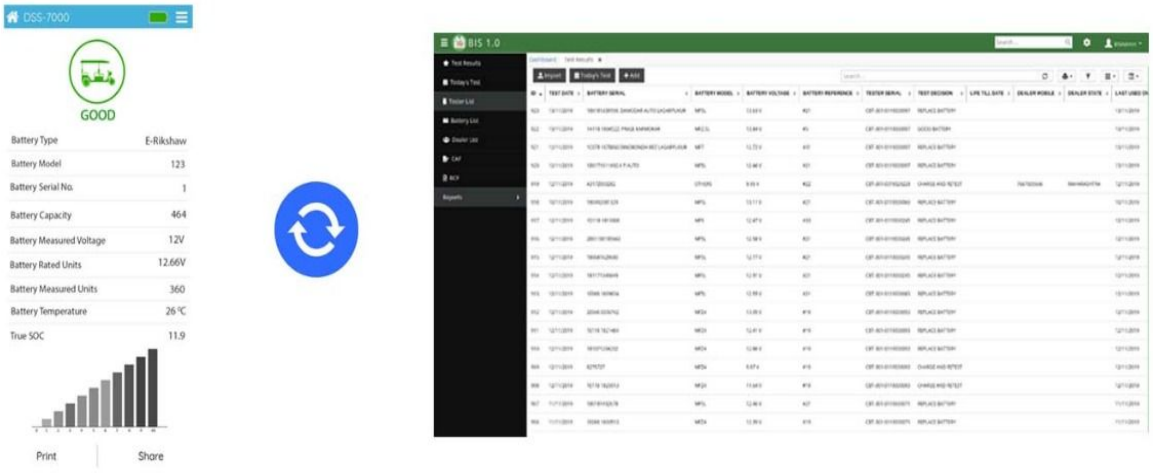



Fig 1.3

**Analysis report for BIS:-**

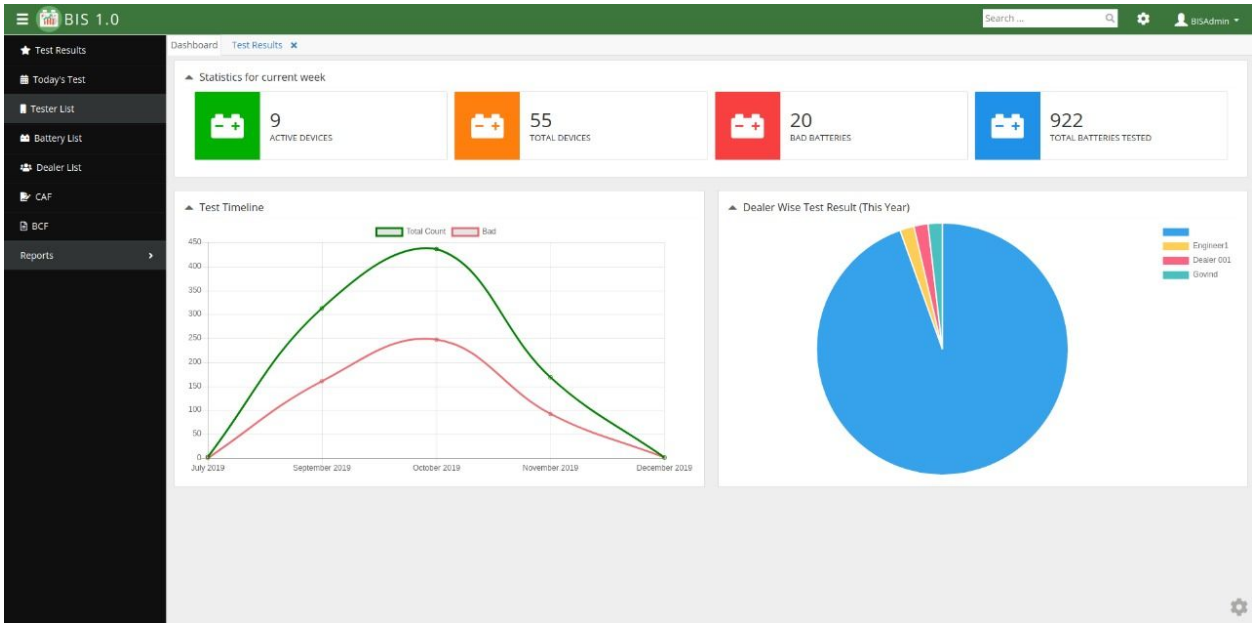



Fig 1.4

## Features:-

- Digital Battery Management
- Batch wise failure analysis
- Test history in realtime in anytime
- Automatic bad batteries
- Model failure rate
- Geographic analysis
- User wise analysis
- Failure Rate analysis
- Tester Management
- Dealer Battery Test analysis

**WMS interfacing Process:-**

Following are the Steps for WMS interfacing process.

- Connect Diagnostic device to mobile App.
- Press the upload button on the result page of DSS 7000 and the tested battery data gets uploaded on the WMS software system as shown in fig(1.5).

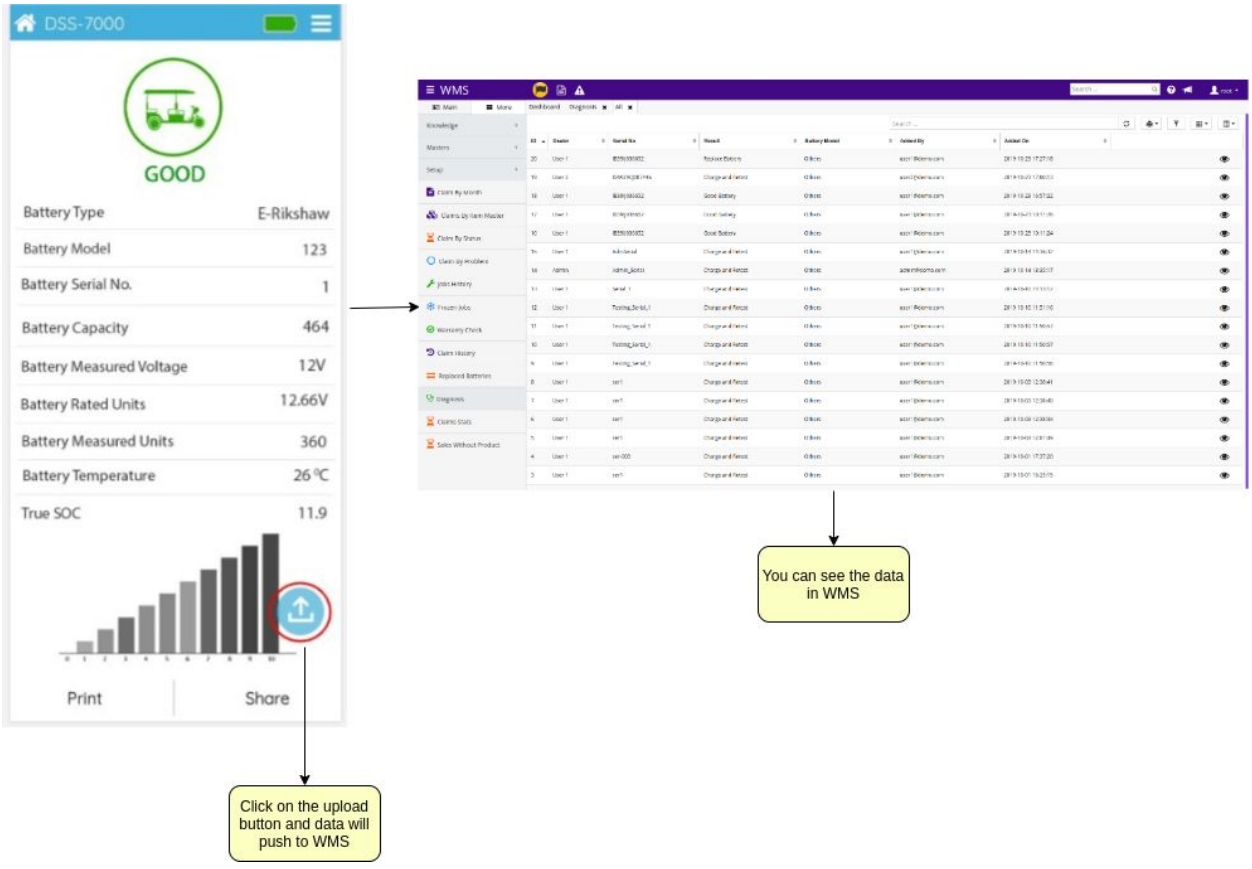



fig.1.5

## Analysis report for WMS:-

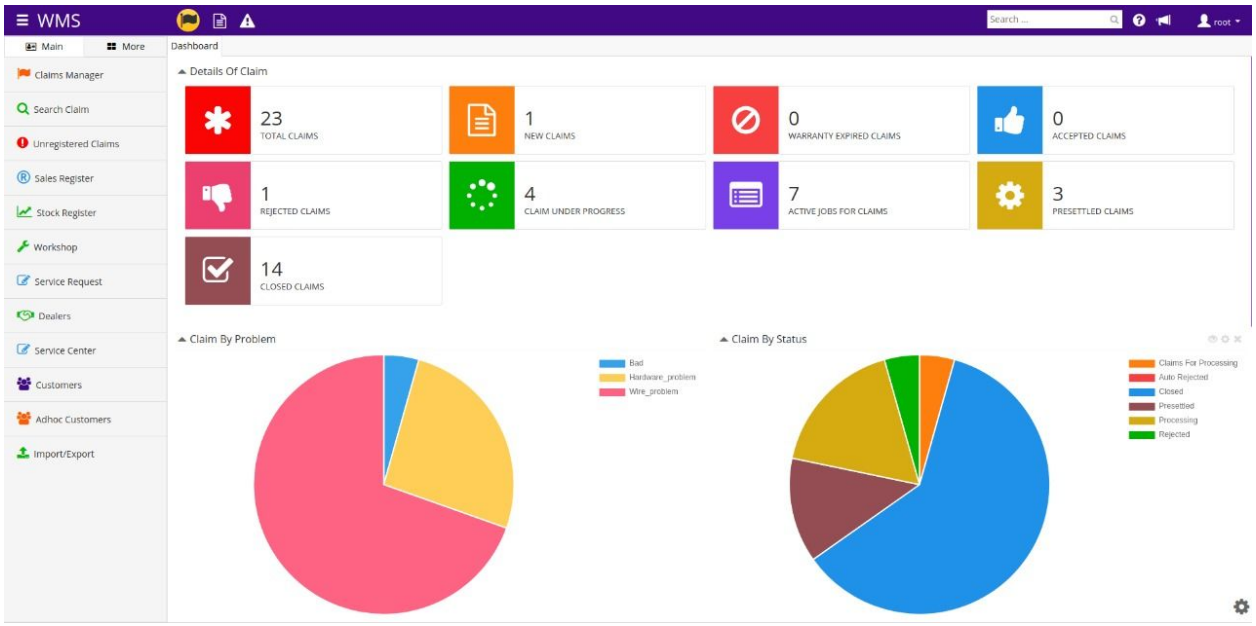



**Fig 1.6**