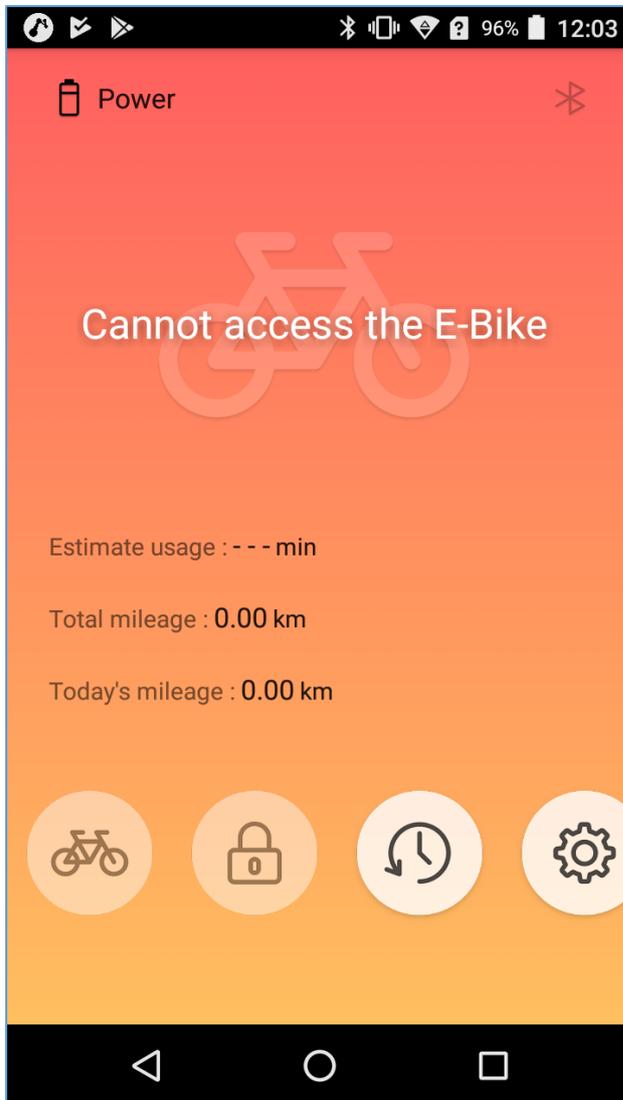


Main Page (1/3)

- BT is not connected.



Launch Dashboard Page to record your trip. Connect BT to enable button. See Page 3.



BT Lock function. Connect BT to enable button. See Page 4.



BT Lock is activated and Dashboard button is disabled.



Launch History Page. See Page 5.



Launch Settings Page. See Page 7.

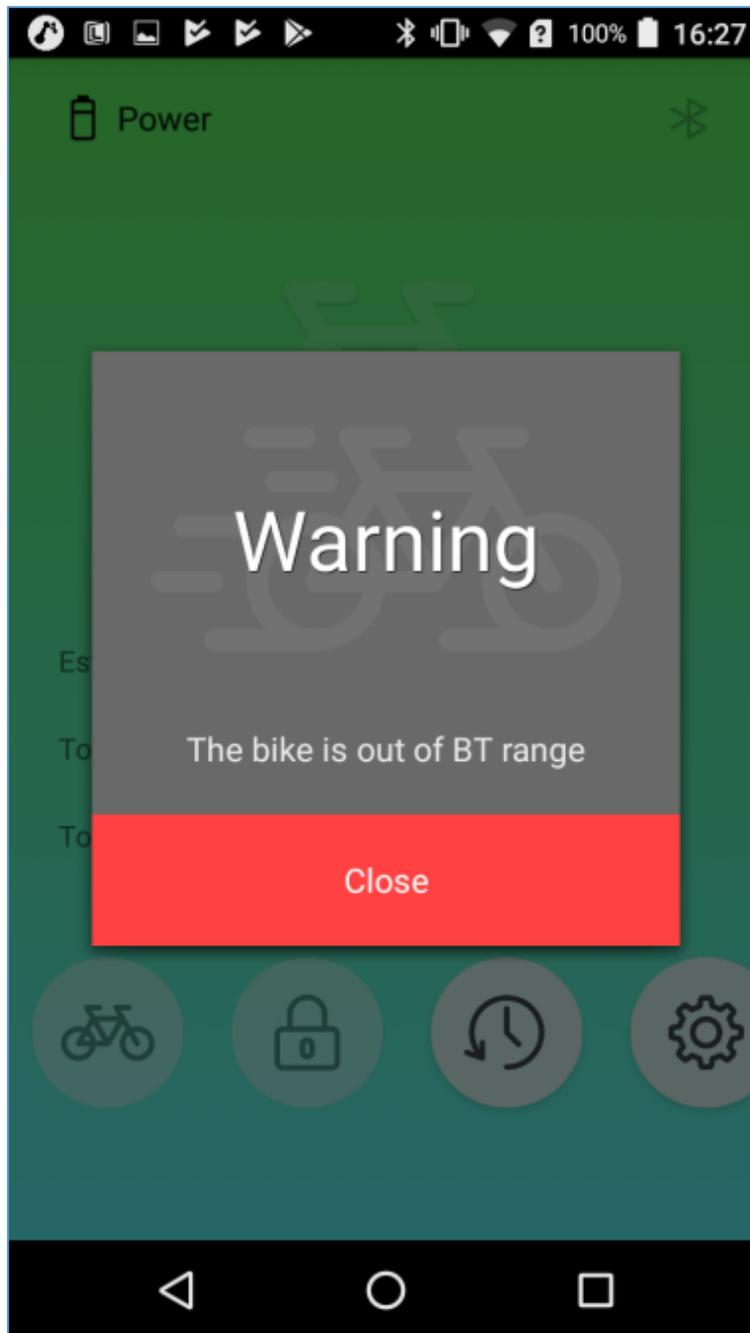
Main page (2/3)

- BT is connected and BT Lock is activated.



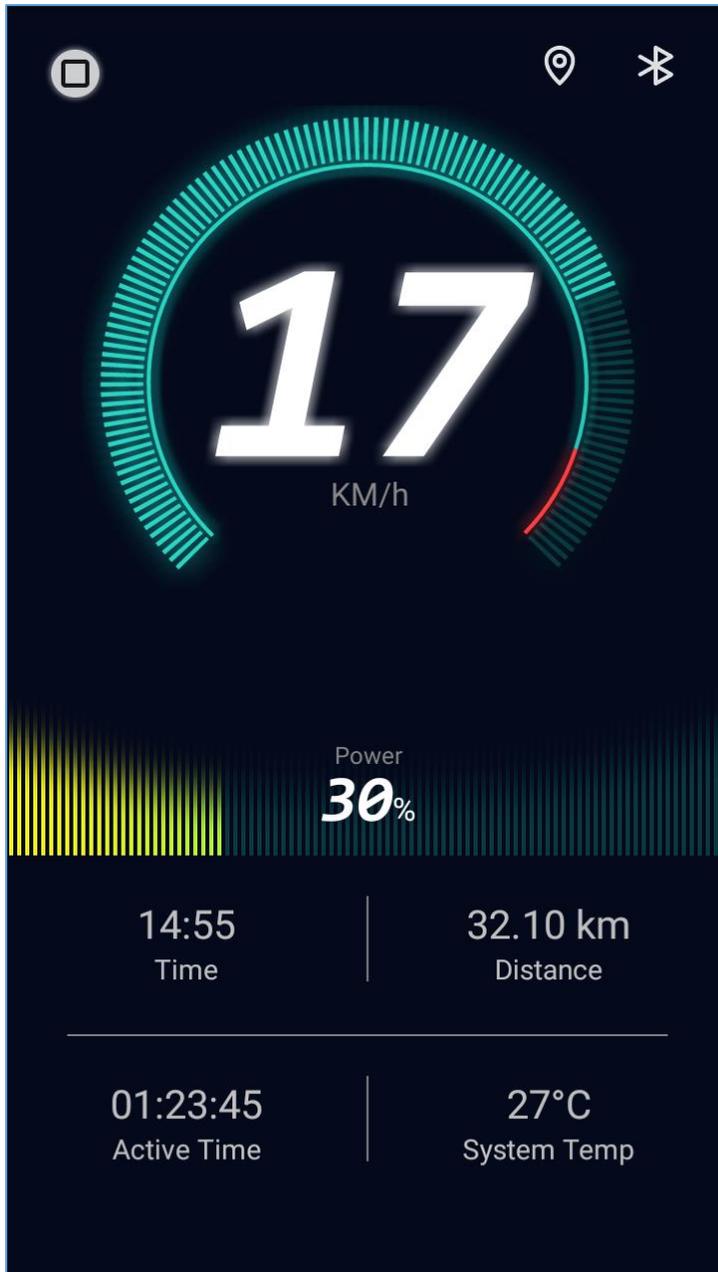
Main Page (3/3)

- BT is disconnected unexpectedly and send warning while the BT Lock is activated.



Dashboard Page

- Except the values shown here, app also records the route of this activity.



- **A** stop button. Will stop recording, save data and launch the Record Page to see the latest record, see page 6.

- Time: the current time.
- Active Time: the active time only be accumulated with the speed faster than 5km/h.
- Distance: the distance only be accumulated with the speed faster than 5km/h.
- System Temp: the current temperature of the pack.

History Page

- This page list all the activities. Press any of the activities will open a record and be shown on Record Page, see page 6.



Delete an activity record.

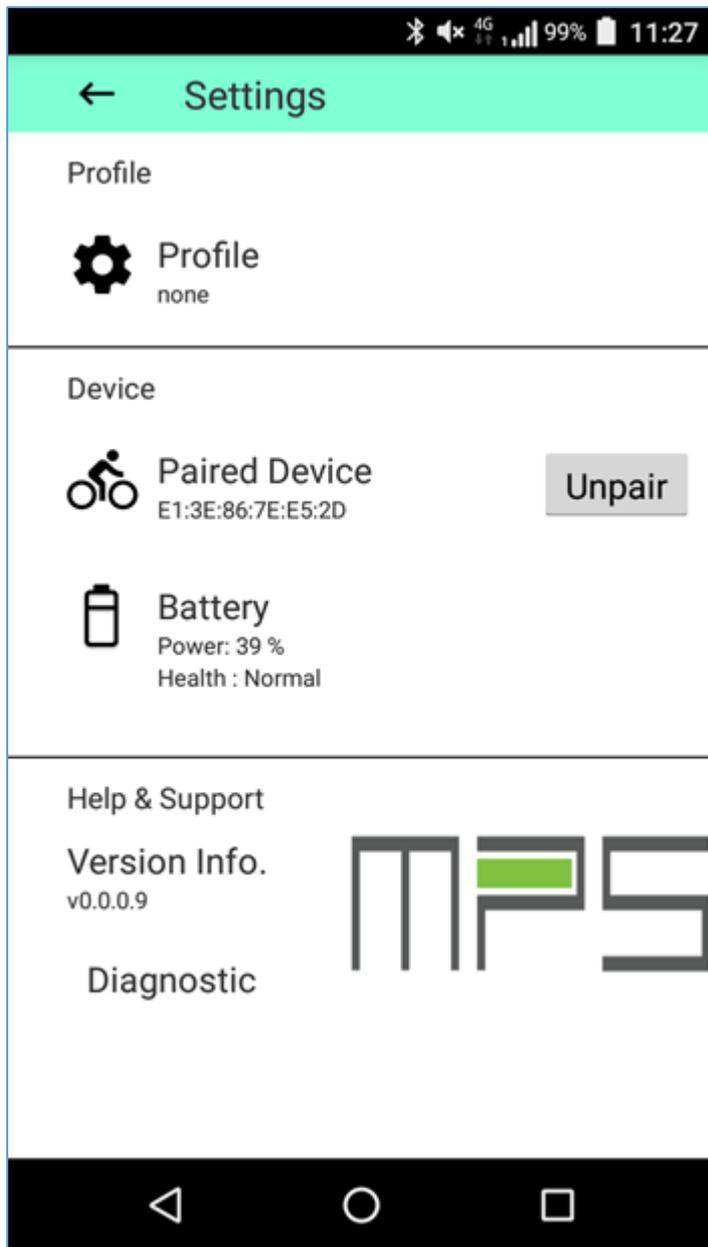
Record Page



 A general share function.

- Calories: the computation is base on no electric power is used

Settings Page



Profile is a page which can fill some basic data optionally, see page 8. User name will replace the “none”, if user fill a name in Profile page.



Pair/Unpair button for MPS pack.



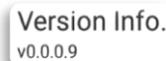
Show the MAC

address of connected battery.



Show power level and health

status of battery.



Pressing 4 times continually

will show “Diagostic” which can launch Diagnostic Page, see page 9~12.

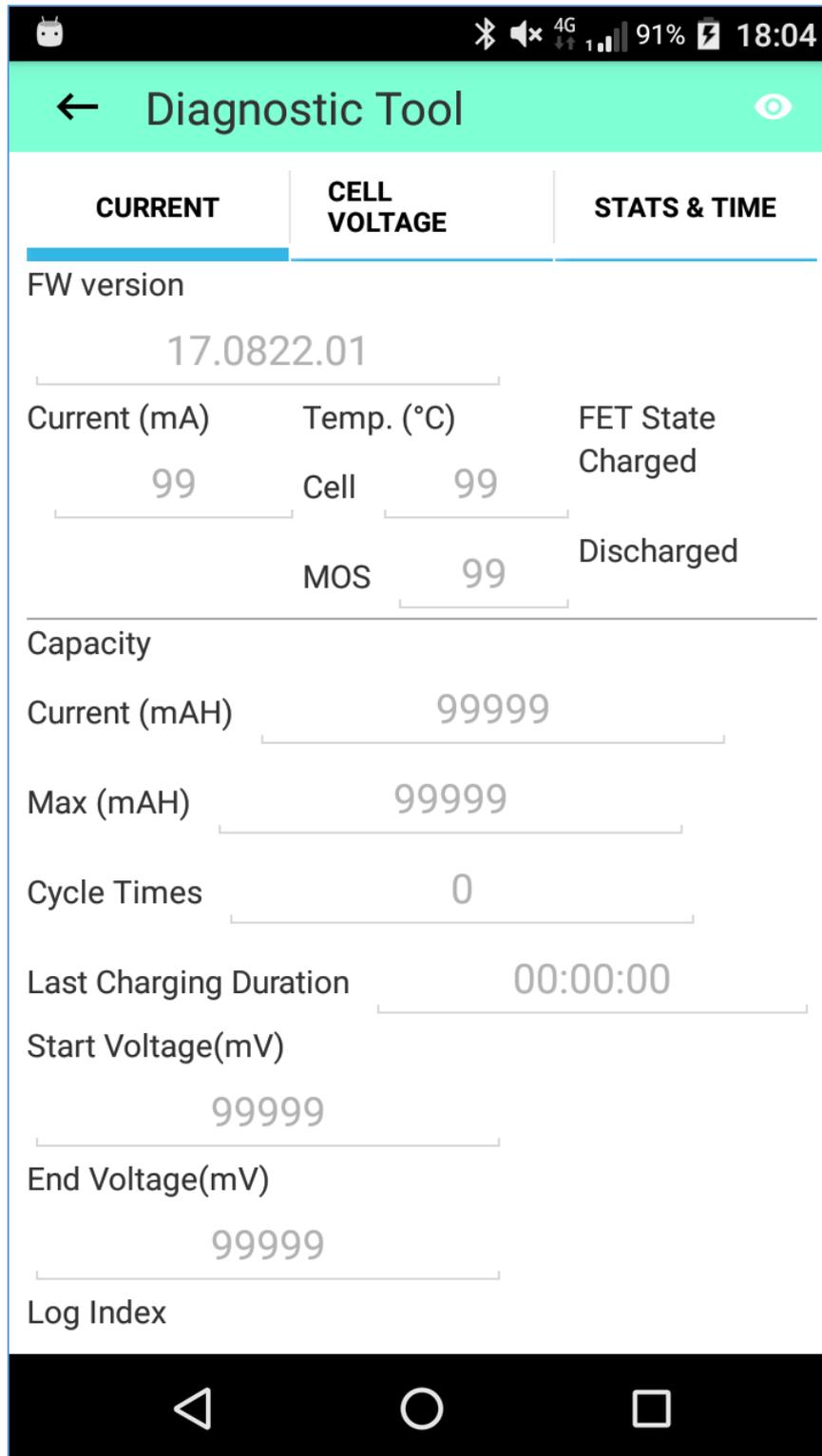
Profile Page

- Some basic personal data, are all optional and locally saved. The weight value, default 60, is used in calorific calculation.

The screenshot shows the Profile Page of the mBike app. The page has a green header with a back arrow, the title "Profile", and a "Save" button. Below the header are input fields for "User Name", "Birthday", "Gender" (set to "Male"), "Height" (set to "height" cm), and "Weight" (set to "60" kg). The bottom of the screen shows the Android navigation bar.

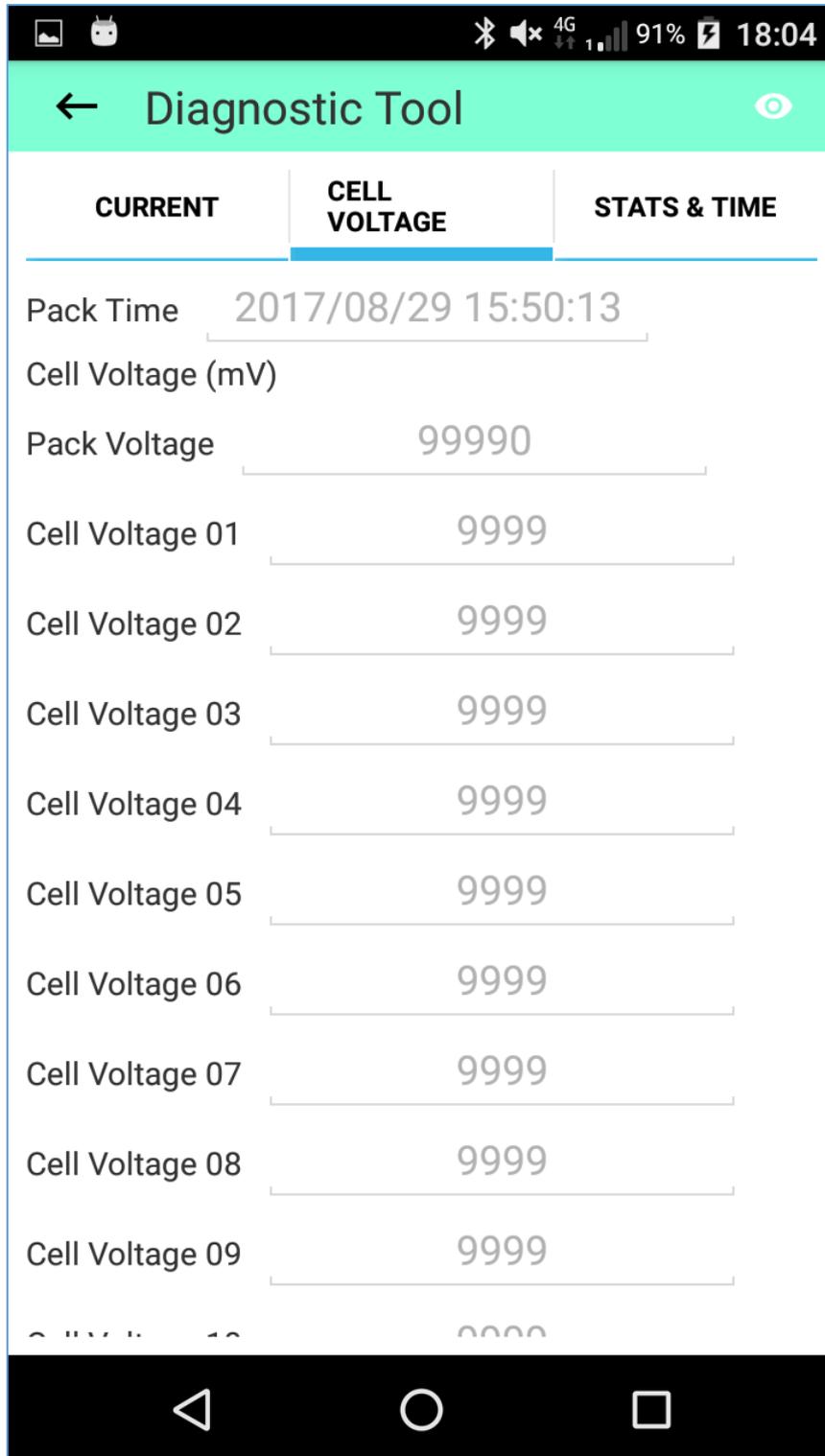
Android Diagnostic Tool Page (1/3)

- This page contains some values of current, pack temperature, capacity and charging status.



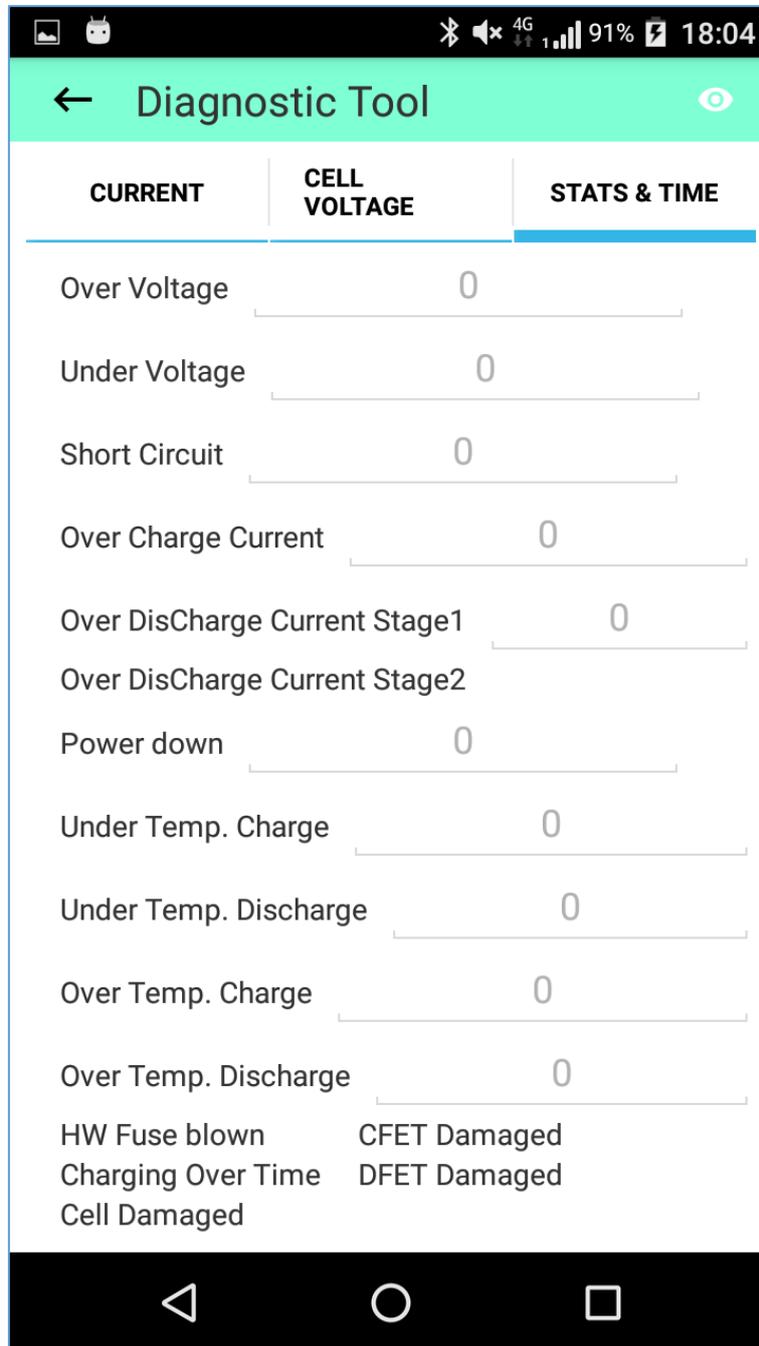
Android Diagnostic Tool Page (2/3)

- This page are all voltage values of cells.



Android Diagnostic Tool Page (3/3)

- This page indicate if the pack occurs error and the error frequency.



The screenshot shows the 'Diagnostic Tool' interface on an Android device. The status bar at the top indicates 4G connectivity, 91% battery, and the time 18:04. The app title is 'Diagnostic Tool'. The main content is a table with three columns: 'CURRENT', 'CELL VOLTAGE', and 'STATS & TIME'. The 'STATS & TIME' column is currently selected. The table lists various error types and their frequencies, all of which are currently zero. At the bottom, there are labels for hardware-related errors: 'HW Fuse blown', 'CFET Damaged', 'Charging Over Time', 'DFET Damaged', and 'Cell Damaged'.

CURRENT	CELL VOLTAGE	STATS & TIME
Over Voltage	0	
Under Voltage	0	
Short Circuit	0	
Over Charge Current	0	
Over DisCharge Current Stage1	0	
Over DisCharge Current Stage2		
Power down	0	
Under Temp. Charge	0	
Under Temp. Discharge	0	
Over Temp. Charge	0	
Over Temp. Discharge	0	
HW Fuse blown	CFET Damaged	
Charging Over Time	DFET Damaged	
Cell Damaged		

iOS Diagnostic Tool

無 SIM 卡 上午9:33		
Settings	Diagnostic Tool	Pause
19/08/29 09:39:13	2DE57E863EE1	18.1029.95
total(mV) 38429	cell1 3843	cell2 3842
cell3 3842	cell4 3843	cell5 3841
cell6 3843	cell7 3842	cell8 3843
cell9 3843	cell10 3842	cell11 0
Gain(mA)60 1	Cell/MOS(°C) 25/25	FET State Fail
Current(mAH) 4933	Max 12708	CycleTimes 0
LastChargeDuration 00:00:00	Start(mV) 0	End(mV) 41970
HWFuseBlown ChargingOT CFET DFET Cell		
OverVolt 0	UnderVolt 0	ShortCircuit 1
OverChar.C 0	OverDischar.C 0	PowerDown 4
UnderTemp.Char. 0	UnderTemp.Dischar. 0	OverTemp.Char. 1
OverTemp.Dischar. 1	Log 3248	

- The voltage values of all cells.
- The values of current, pack temperature, capacity and charging status.
- The indication the of battery error occurrence.

MPS Energy Inc.

<http://www.mpsenergy.com.tw/>