X100 AC/DC

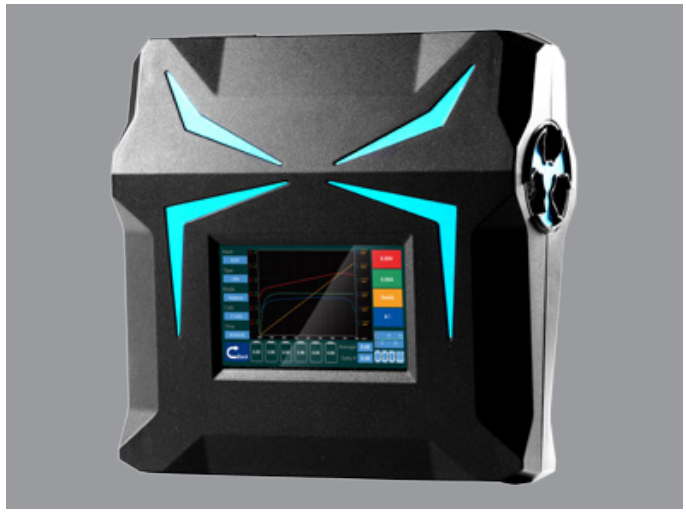
Manual

New Charger X100 Released

www.imaxrc.com/X100.html

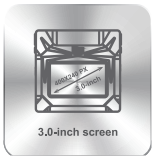
AC Function

DC Function



Touch Screen Operation

3.0 inch touch screen make the operation more convenient



3.0 inch display screen

3.0 inch TFT display screen, WQVGA(400*240),65 thousand resolution

iM·OS V2.15

A whole new OS system for X100 professional charger with high efficiency

USB Port

Output 5V 2.1V USB port specially design for iPhone and smartphone charging.

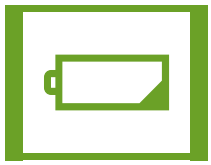
32 bit processor

High precision core 32−bit ARM processor for smoother operation

Multiple languages customization

iM·OS System

www.imaxrc.com/X100.html



Type

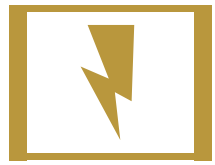
X100 support more than 6 type batteries
LiPo / Lilon / LiFe / NiMh / NiCd / Pb

Type

Current

Input / Output Current
Charge
0.1−8A
Discharge
0.1−3A

Current



Cells

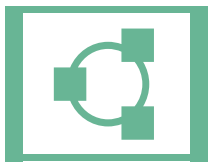
LiXX 1−6S
NiXX 1−16S
Pb 1−10S

Cells

Mode

Fast Charge
Balance charge
Charge
Discharge
Circulating charge/discharge

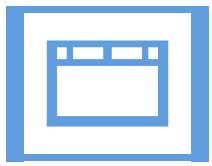
Mode



Load

Loading Common Use Battery Setting

Load



Save

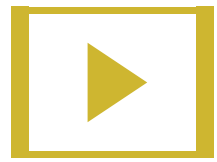
Save Common Use Battery Setting

Save

Uset

Advanced application Settings

Uset



Start

Charging/ Discharg−ing

Start

iM·OS System

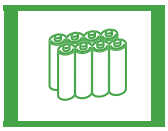
www.imaxrc.com/X100.html

LiPo

Lipo Battery,Single Nominal Voltage: 3.7V,Charge cut-off voltage 4.2V,Discharge cut-off voltage 3.0V

LiIon

LiIon Battery,Single Nominal Voltage: 3.6V,Charge cut-off voltage 4.1V,Discharge cut-off voltage 2.5V



LiFe

LiFe Battery,Single Nominal Voltage: 3.3V,Charge cut-off voltage 3.6ischarge cut-off voltage 20.V

NiMH

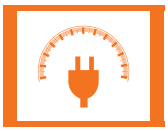
NiMH Battery,Single Nominal Voltage: 1.2V,Charge cut-off voltage 1.5V,Discharge cut-off voltage 1.0V

NiCd

NiCd Battery,Single Nominal Voltage: 1.2V,Charge cut-off voltage 1.5V,Discharge cut-off voltage 0.85V

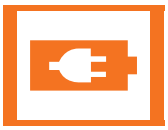
Pb

Pb Battery,Single Nominal Voltage: 2.0V,Charge cut-off voltage 2.5V,Discharge cut-off voltage1.72V



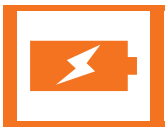
Balance

Lipo balance charge use CC-CV charging way. The charger will balance the battery voltage when charging, this only for LiPo battery. Please connecting the balance port when charging and discharging. Support 2-6 cells.



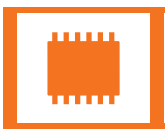
Charge

Use CC-CV charging way. On the basis of Users setting current the charger will charge the battery to the cut-off voltage. Warning: The voltage can not balance even connecting the balance port when using LiPo battery.



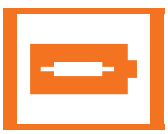
FastCharge

FastCharge. Almost same as the Charge Mode. The only difference is the current only 1/5 and the other setting only 1/10 of the setting current when finished charging. Warning: The voltage can not balance even connecting the balance port when using LiPo battery.



Storage

Charging and discharging the battery voltage to a certain numerical for easy storage. This function only for LiPo battery which need connecting the balance port. Support 2-6S.



DisCharge

Use CC-CV charging way. On the basis of Users setting current the charger will discharge the battery to the cut-off voltage. Warning: Please connecting to the Balance port when use LiPo battery.

Checker

Measuring Mode. The charger only collect battery primary port and balance port voltage,but can not charge and discharge.

Manual Charge

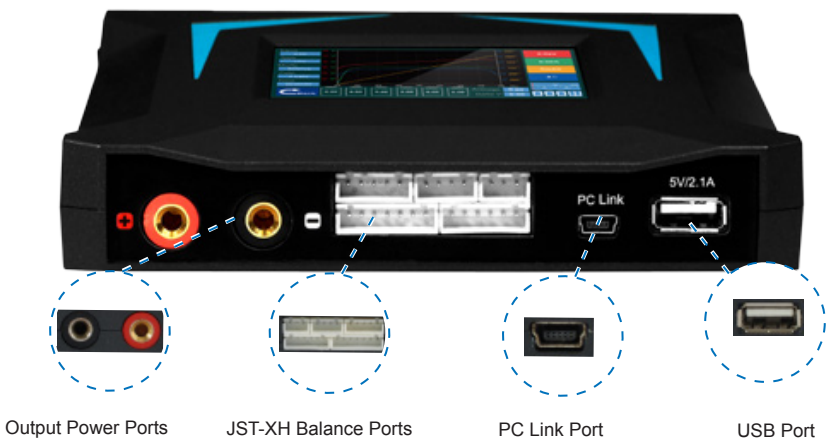
This function only for NiMH battery which same as The Charge mode.

Cycle

This function only for NiMH battery. On the basis of Users setting current for MiNH battery cycle charging and discharging.The Cycle times is 1−6.

X100 Fundamental Function

www.imaxrc.com/X100.html



X100 is a professional RC model battery charger,please view the manual before using. If you are a fresh man please read this entire operating manual completely before using.

【Warning:】The warning of charger operation and disclaimer, Please read and abide by the following terms before operation.

1. This is a sophisticated hobby product. The person who operates the charger should be professional who master professional knowledge about chargers.

2. Make sure the battery variety you using meets charger require-ment. Any kinds of damaged, aged and surface, damaged batteries are prohibited. Besides, choose the suitable charging program or the charger and the battery will get damaged.

3. Considering of uneven physical property and various batteries never leave the working charger exhausting, leaking or inflating, immediately disconnect the battery and store it in a safe ocation, away from people and inflammable materials.

5. iMaxRC will not be responsible for any personal injuries and fire disaster caused by incorrect operation.

I have read this agreement carefully and give up all legal.

Connecting X100

Please follow the below steps connecting:

1: Please connect the AC power cord with X100 charger, and then plug adapter of power cord into socket.

2: Connect battery correctly with X100. If LiPo battery, pls also connect balance adapter of battery with balance port of X100.

【NOTE】USB support 5V 2.1A charging voltage,and also use for iPad / iPod / iPhone / HTC and other intelligent electronic equipment. Both the USB and battery get charged simultaneously.

4: Sarting X100

startup X100 to enter the main interface (Image 1).

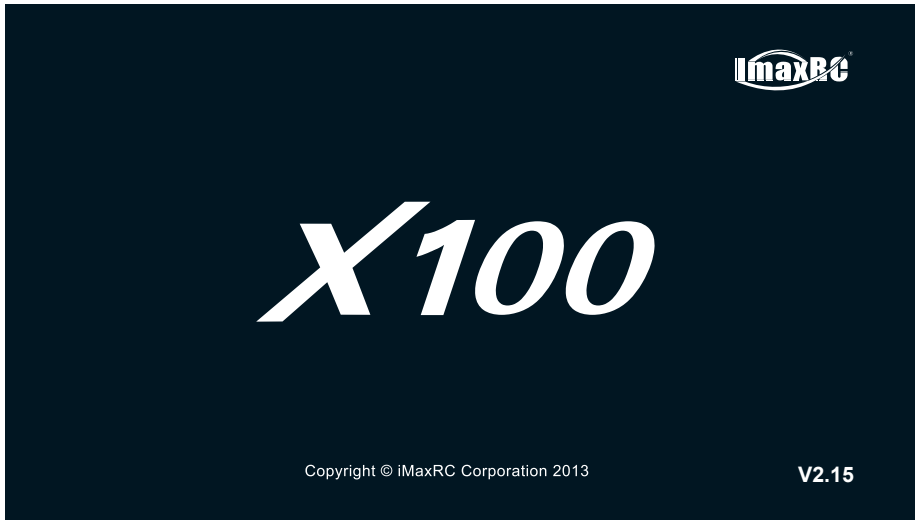


Image 1

Showing “Warning and Disclaimer” 2 seconds and will know the copyright and security information (Image 2). It will be enter into the contacting interface if you can not agree with the disclaimer, and then you could contact the distributor return the charger (Image 3)

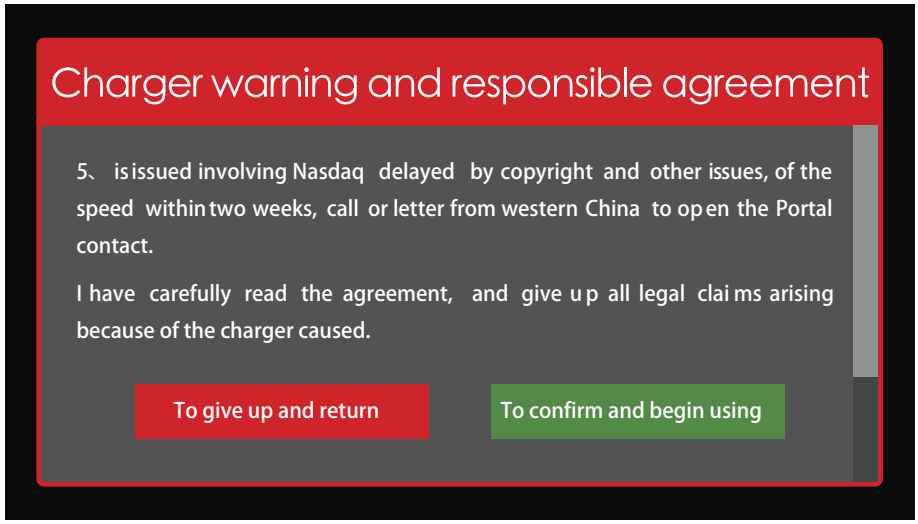


Image 2

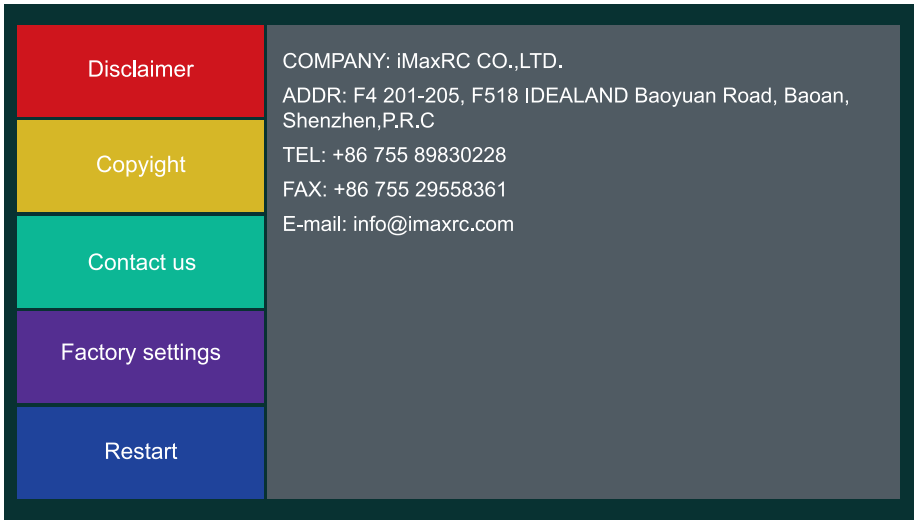


Image 3

【NOTE】Please read Disclaimer before doing anything.

6: Enter into main interface after accepting(Image 4). Start to charge and discharge according to the different battery.

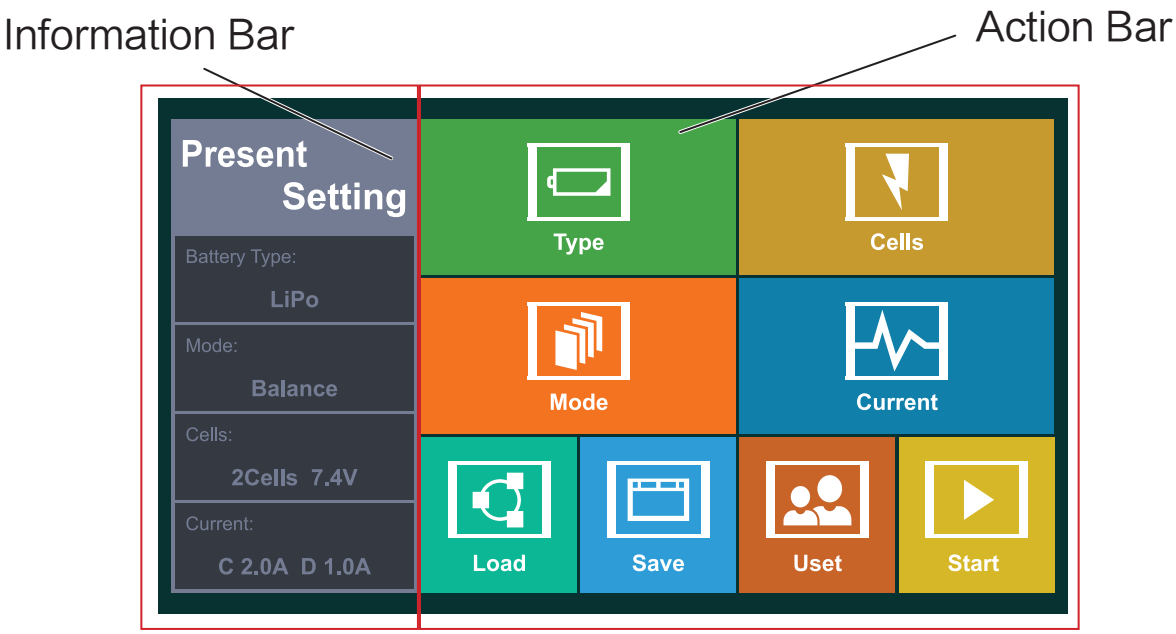


Image 4

【NOTE】Information bar can not get touched.

Example 1:Choose a set of LiPo battery charging,please follow the below steps:

Step 1: Touch Type(Image 5) Enter into the “Type interface”, and then Touch :LiPo (Image 6) will Enter into main interface go on the next step.

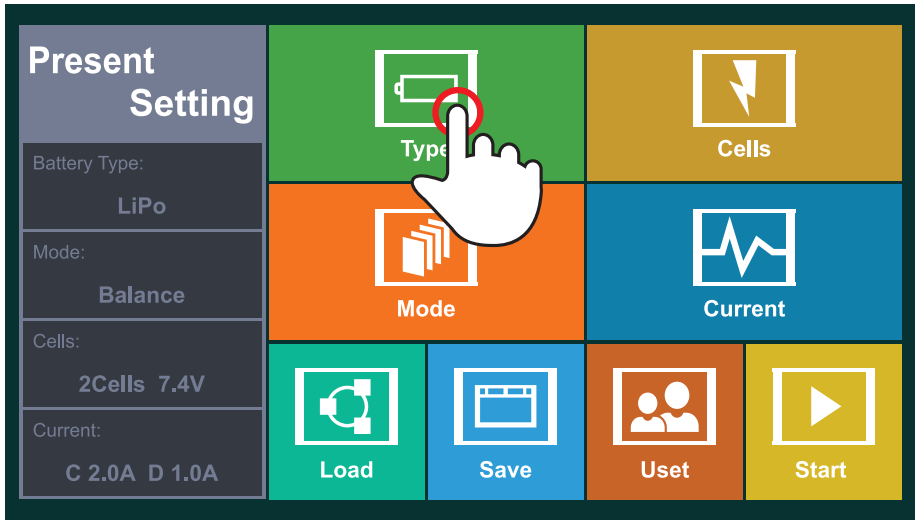


Image 5

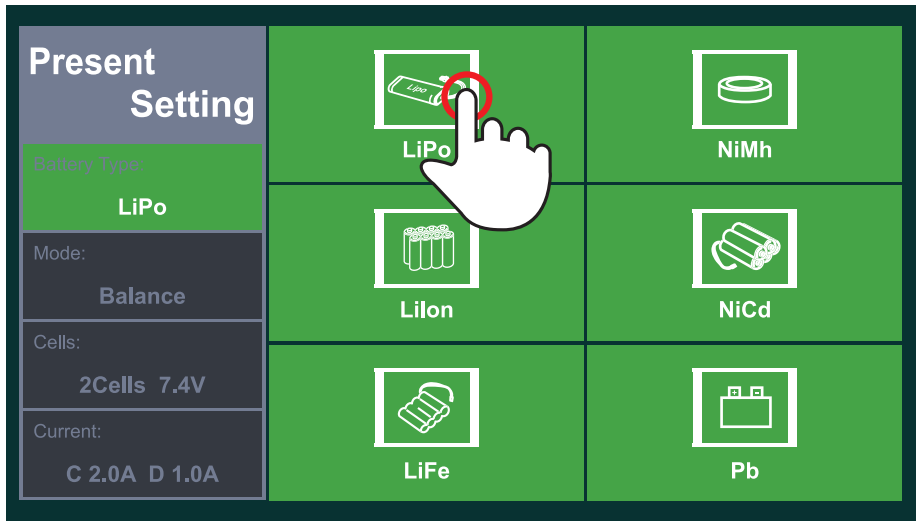


Image 6

Step 2: Touch ‘Mode’ icon(Image 7) to enter into Mode interface. Please choose battery charge mode (Image 8) and go back to main interface to continue setting.

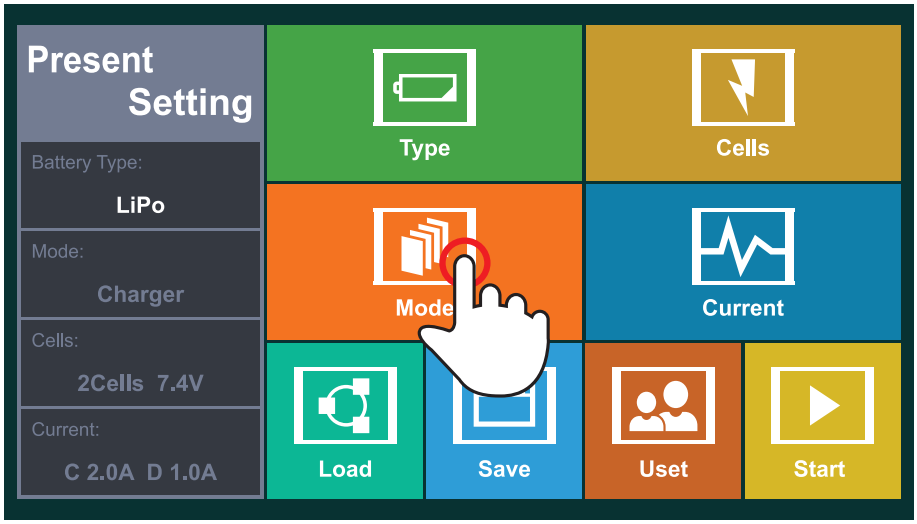


Image 7

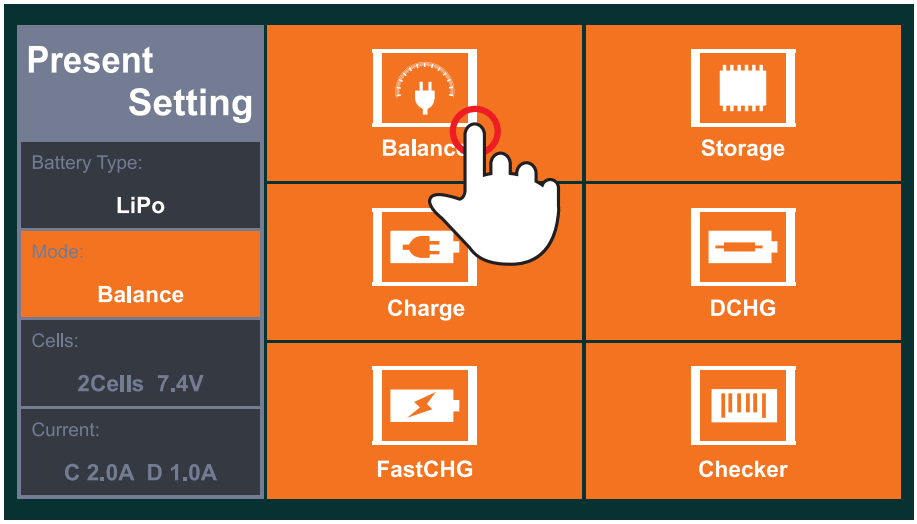


Image 8

【Note】There are six charge/discharge modes in Mode interface(Image 8), see iM.OS System function for further details. please set charge/discharge mode according to your requirement. Image 7 is showing Balance charge mode.

Step 3: Touch Cells icon (Image 9) to enter into Cells interface. Please set battery packs by sliding (Image 10). Touch OK to go back to main interface and continue setting.

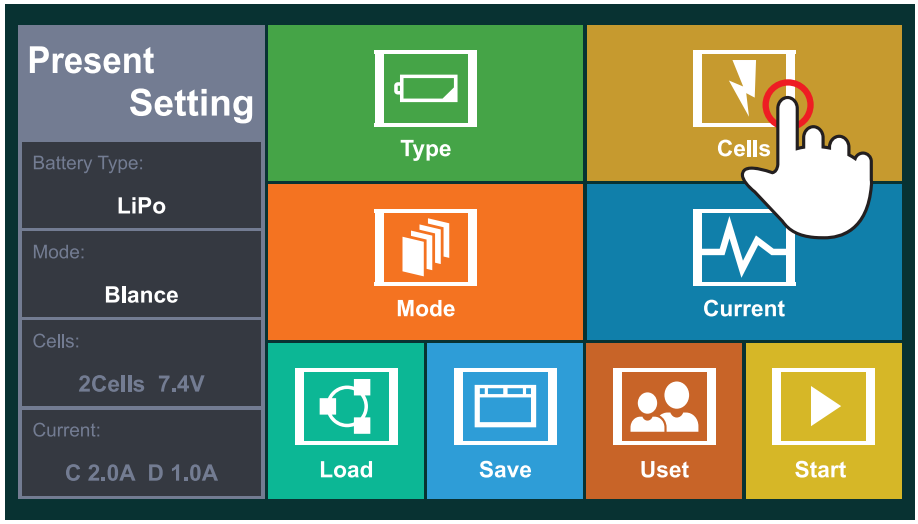


Image 9

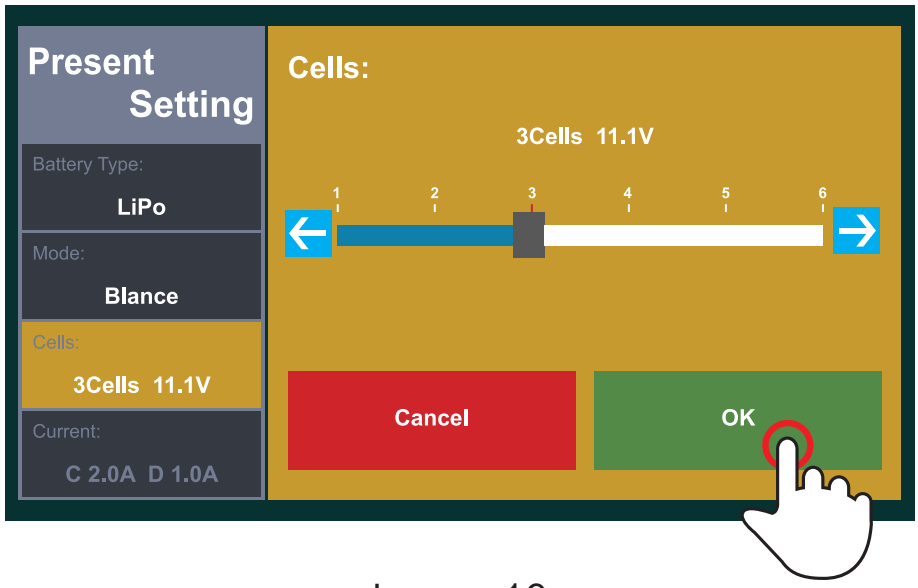


Image 10

【Note】Please set according to suitable battery packs.

Step 4: Touch Current icon (Image 11) to enter into Current inter-face. Please set charge current by sliding (Image 12). Touch OK to go back to main interface and continue setting.

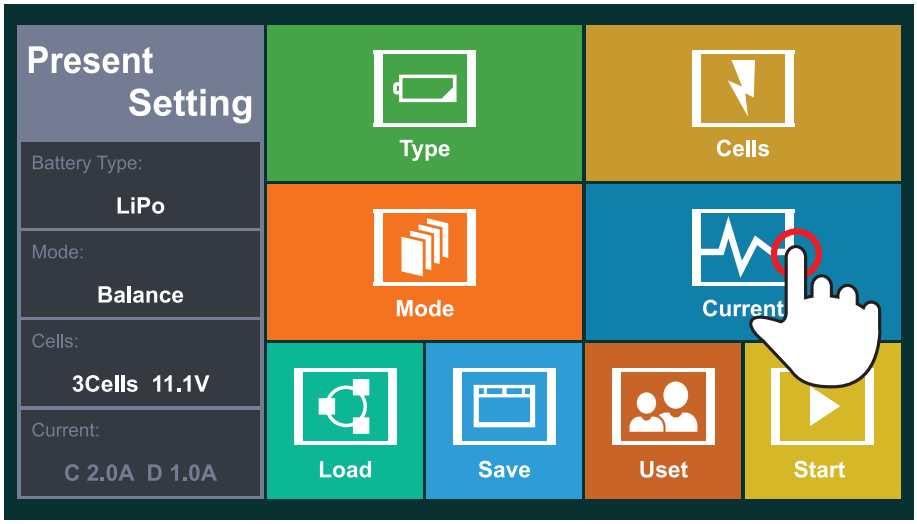


Image 11

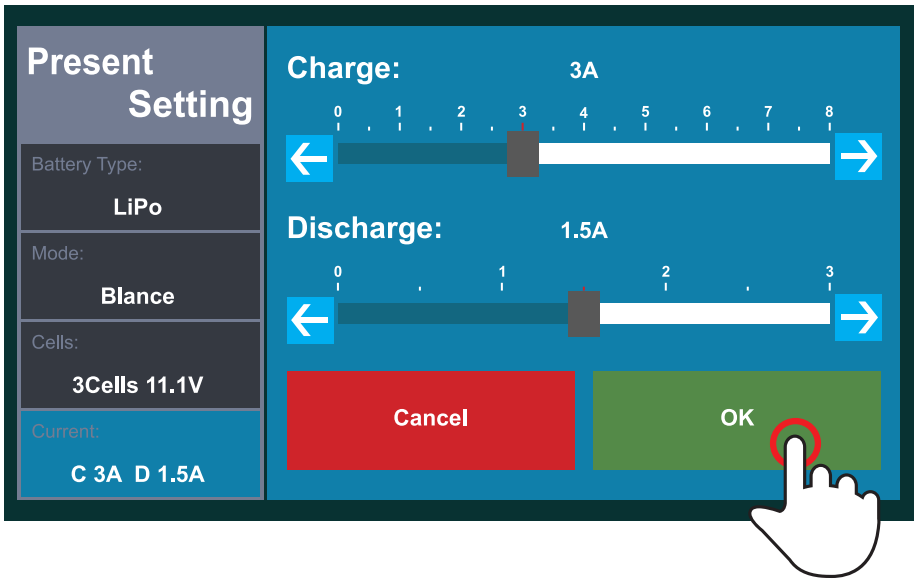


Image 12

【NOTE】Set charge current in charge mode and discharge current in discharge mode.

Step 5: If you often use the same battery, please touch Save icon (Image 13) to enter into Save interface. Touch Unused icon to save the data and it will be easy for you to charge next time. (Image 14)

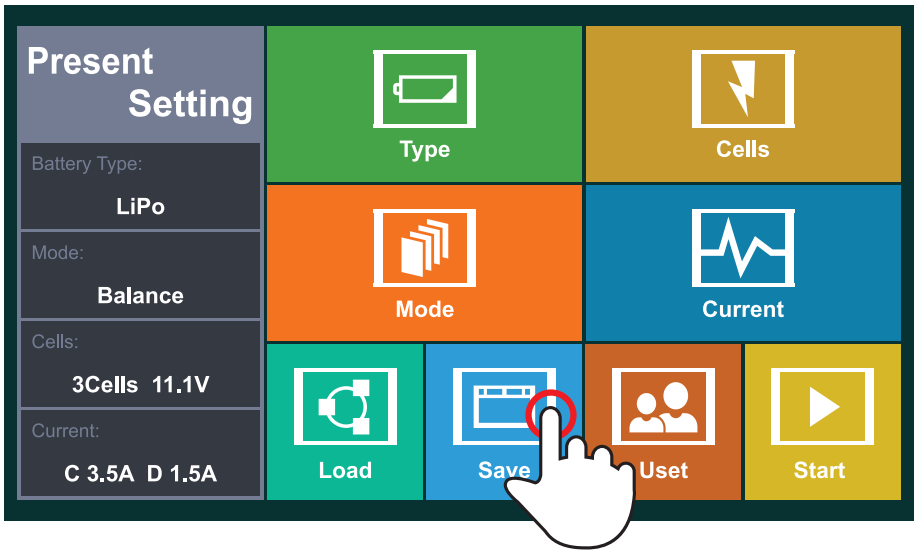


Image 13

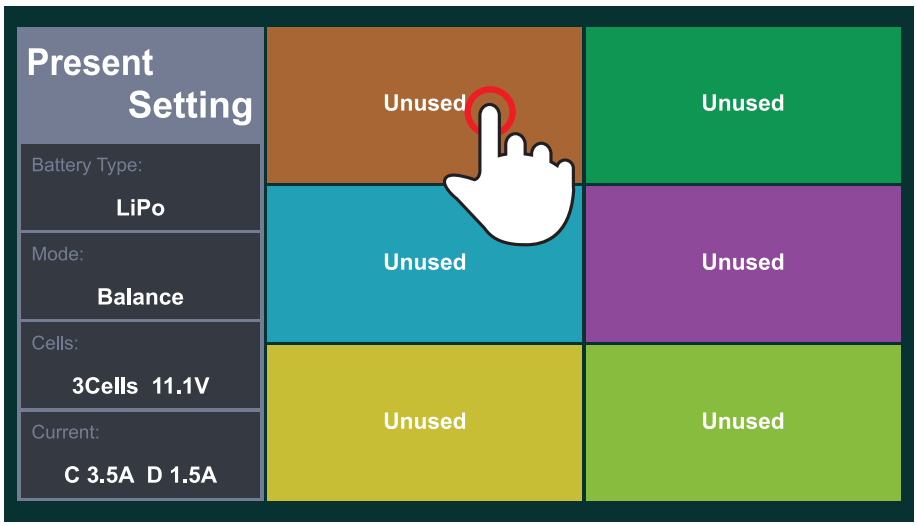


Image 14

【NOTE】You could use this function after you have set Type/ Mode/Cells and Current correctly.

Step 6: You could load your previous data according to X100’s load function. Touch Load icon (Image 15) to enter into Load inter-face. Choose the data you want to load (Image 16).

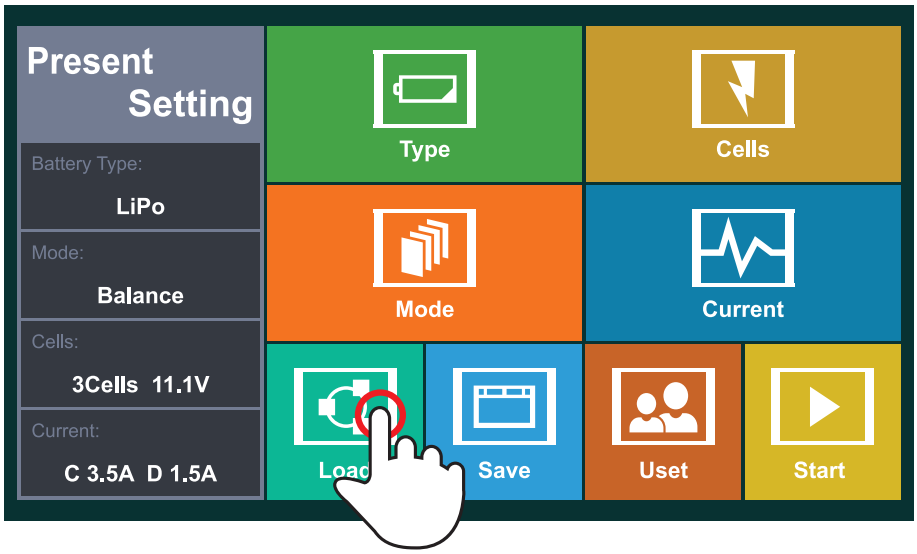


Image 15

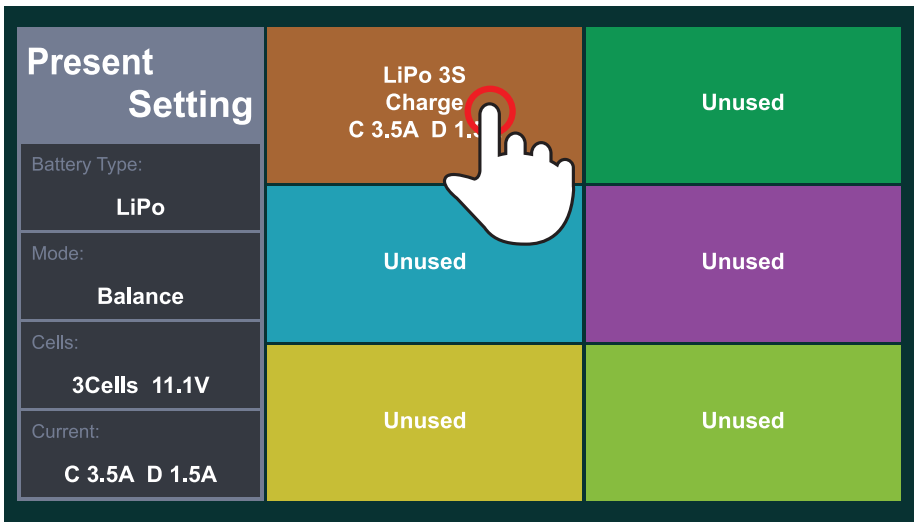


Image 16

Step 7: Touch Start icon (Image 17) to enter into Start interface. The system will check battery status automatically. If everything is OK, the charger will begin to charge.(Image 18)

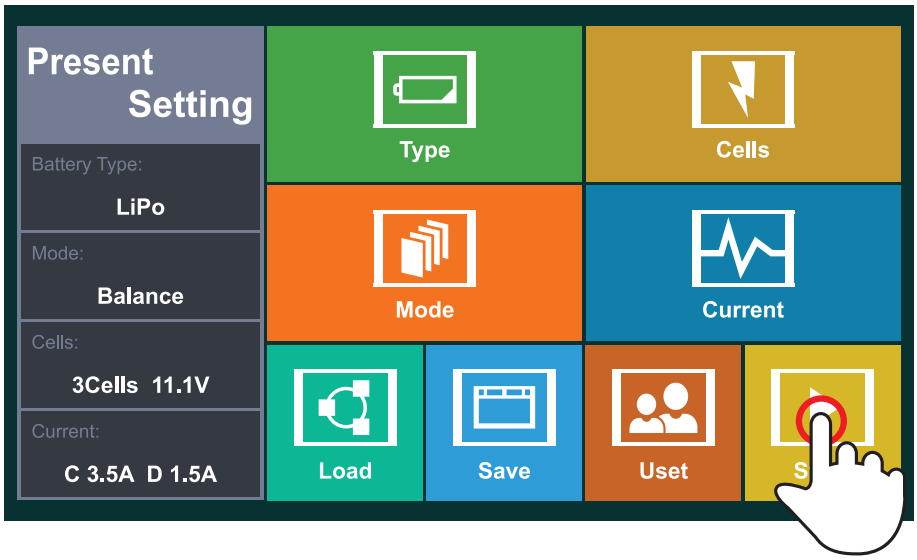


Image 17

Image 18

【NOTE】The charger will pop-up window when the battery is fully charged. Touch OK to finish charging process (Image 19).

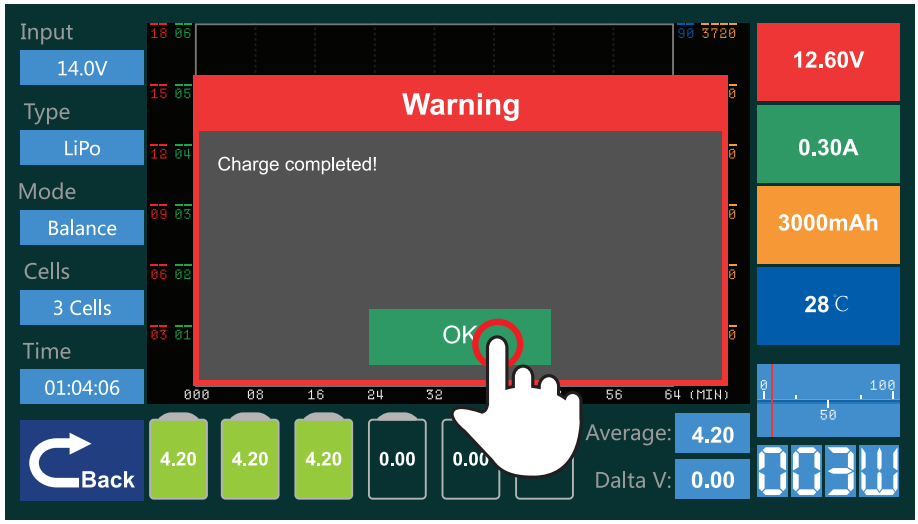


Image 19

【NOTE】The charger will send out an alert and pop-up window if the battery packs' setting is incorrect (Image 20).

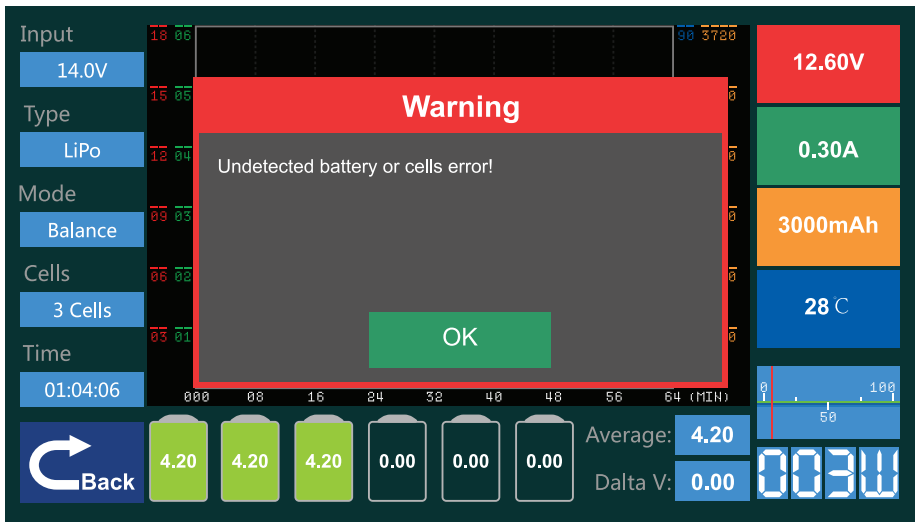


Image 20

Example 2: If you want to charge a pack of NiMh battery, please execute the operation as follows:

Step 1: Touch Type icon (Image 21) to enter into Type interface. Touch NiMh icon to go back to main interface and continue setting (Image 22).

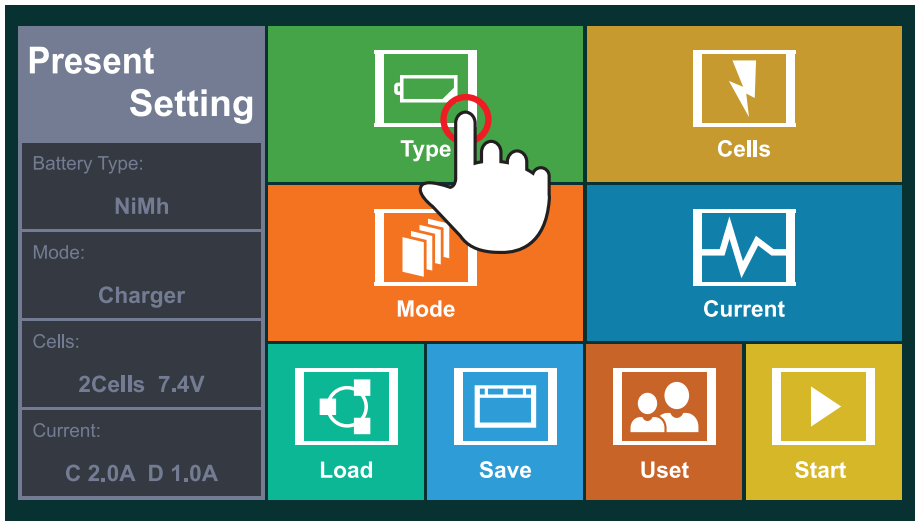


Image 21

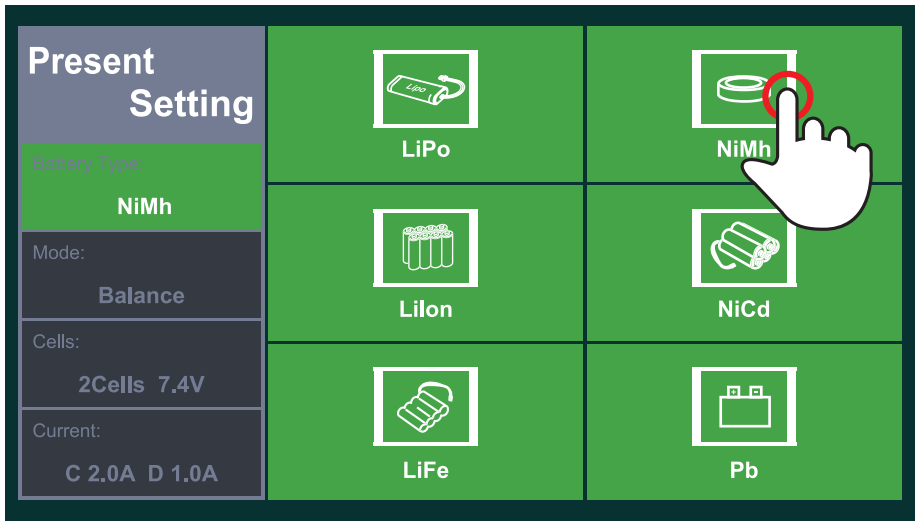


Image 22

Step 2: Touch Mode icon (Image 23) to enter into Mode interface. Touch Charge icon (Image 24) to go back to main interface and continue setting.

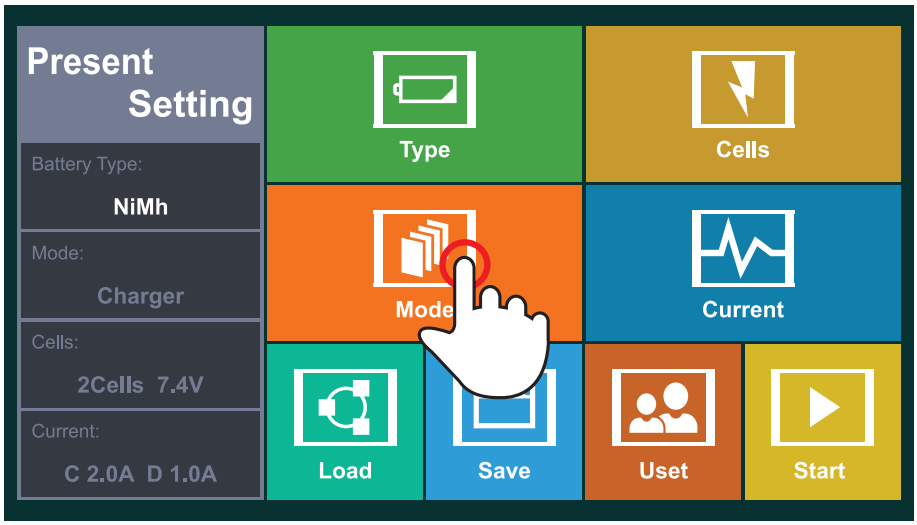


Image 23

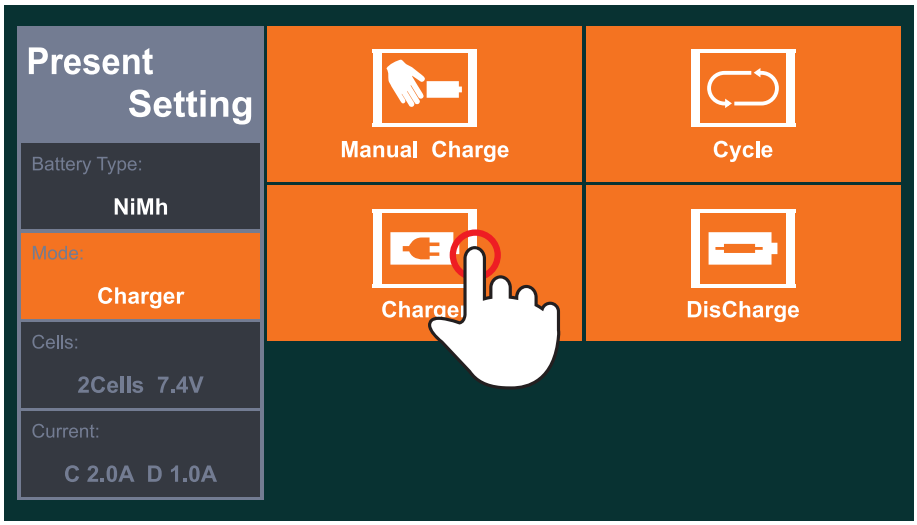


Image 24

【NOTE】There are four charge/discharge modes in Mode interface(Image 24), see iM.OS System function for further details. please set charge/discharge mode according to your requirement. Image 23 is showing charge mode.

Step 3: Touch Cells icon to enter into Cells interface. Please set NiMh battery packs by sliding (Image 25). Touch OK to go back to main interface and continue setting (Image 26).

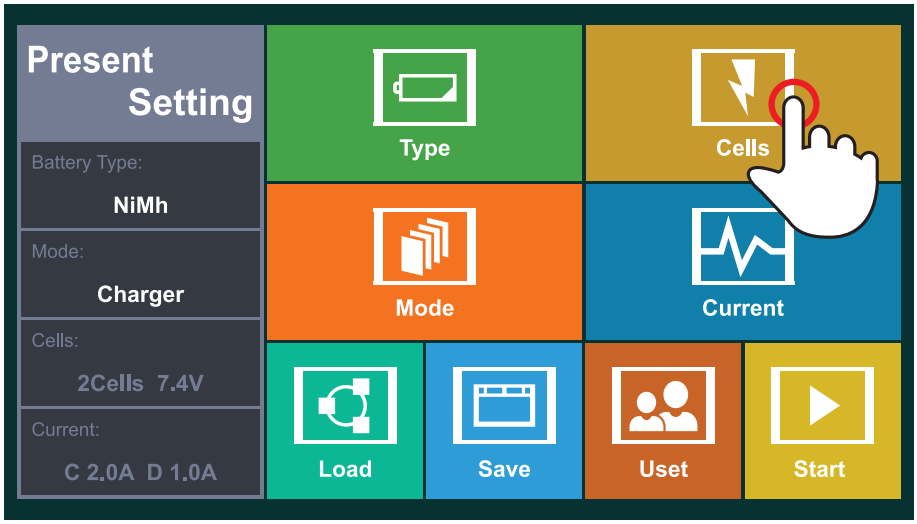


Image 25

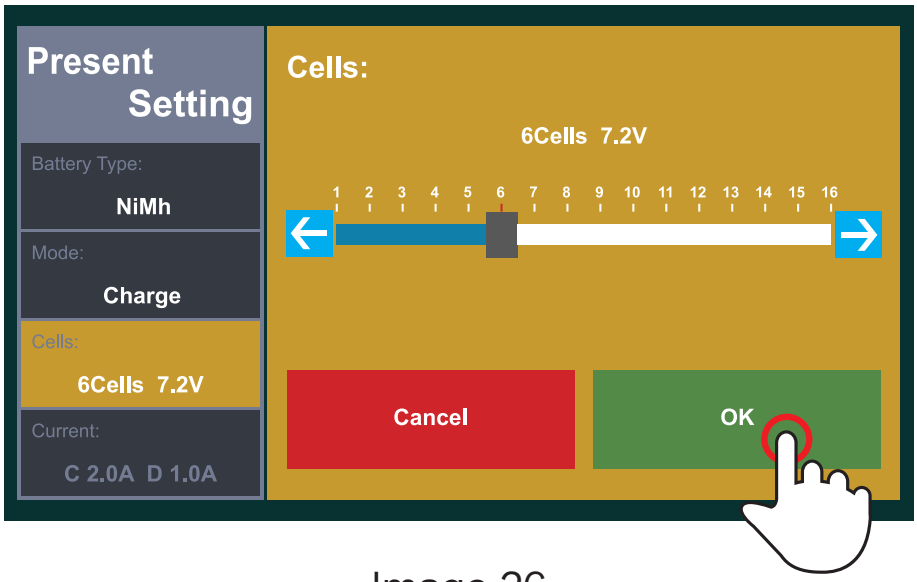


Image 26

【NOTE】The battery cannot be charged if each pack of the battery voltage is less than 0.7V, please use the less battery packs to activate charging process. If you need lower voltage during dis-charging process, please use the less battery packs to discharge.

Step 4: Touch Current icon (Image 27) to enter into Current interface. Please set charge current by sliding (Image 28). Touch OK to go back to main interface and continue setting.

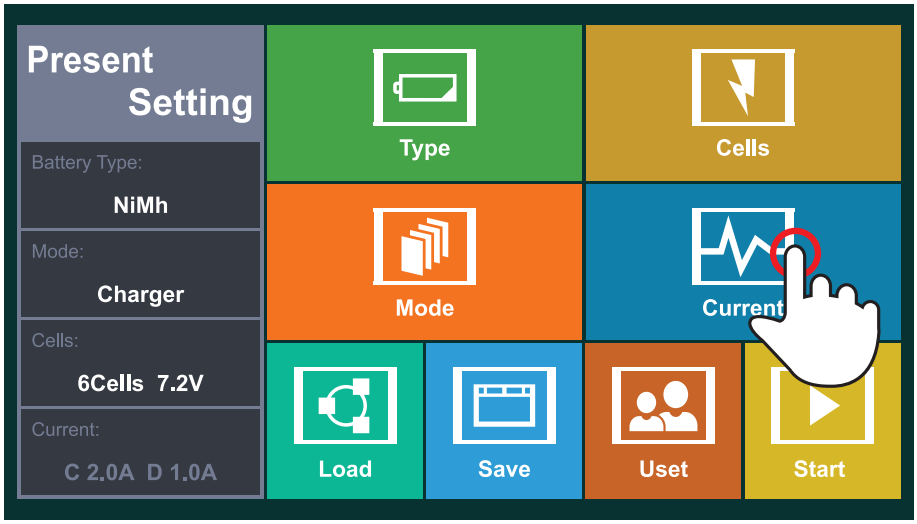


Image 27

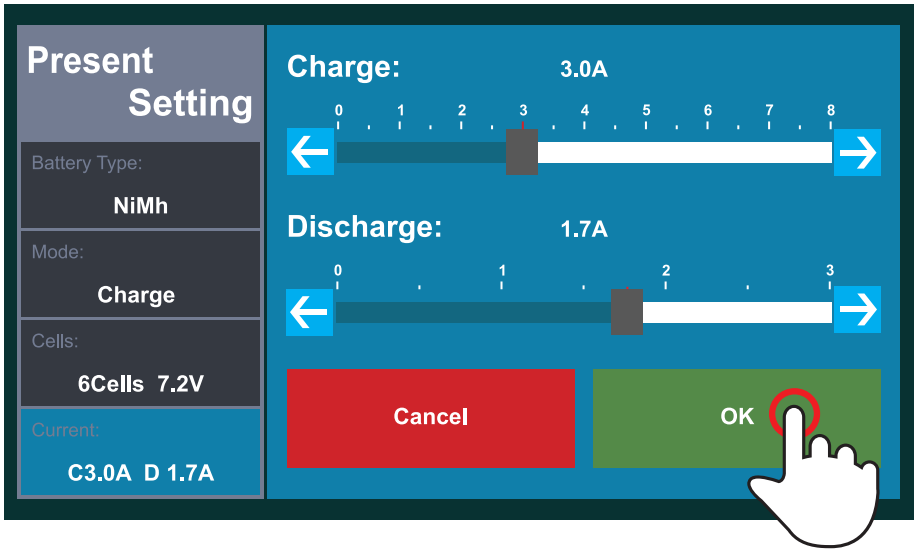


Image 28

【NOTE】Please set charge current in charge mode and discharge current in discharge mode. As for Save and Load functions, please see Step5 and 6 in Example1 for further details.

Step 5: Touch Start icon (Image 29) to enter into Start interface. The charger will check battery status automatically. If everything is OK, the charger will begin to charge (Image 30).

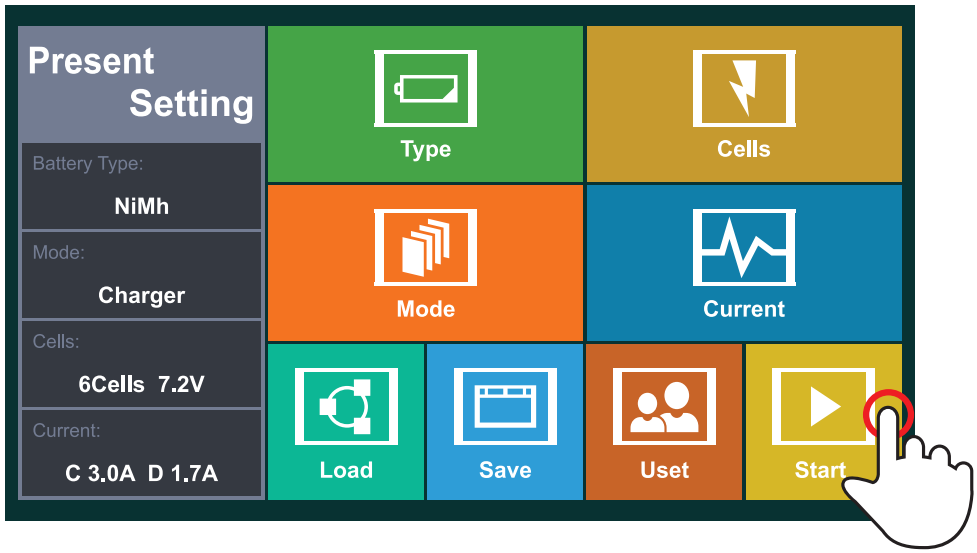


Image 29

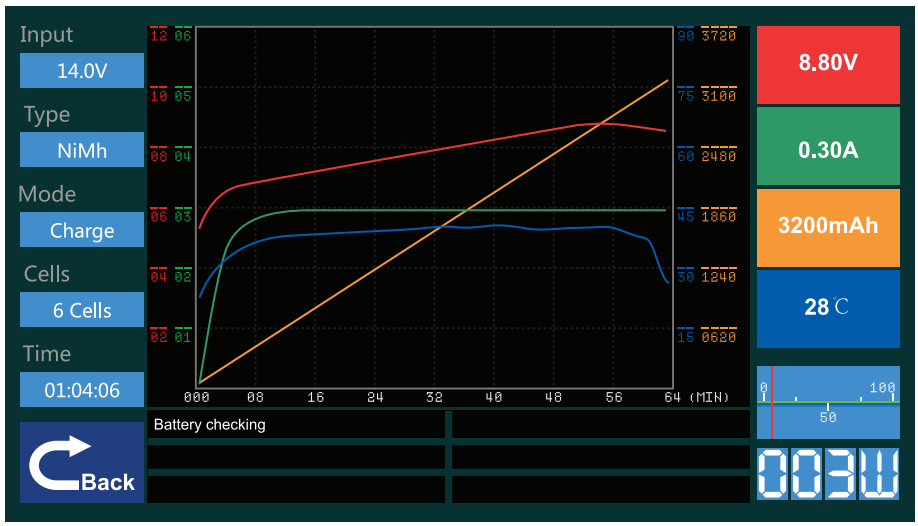


Image 30

【NOTE】The charger will pop-up window when the battery is fully charged. Touch OK to finish charging process (Image 31).

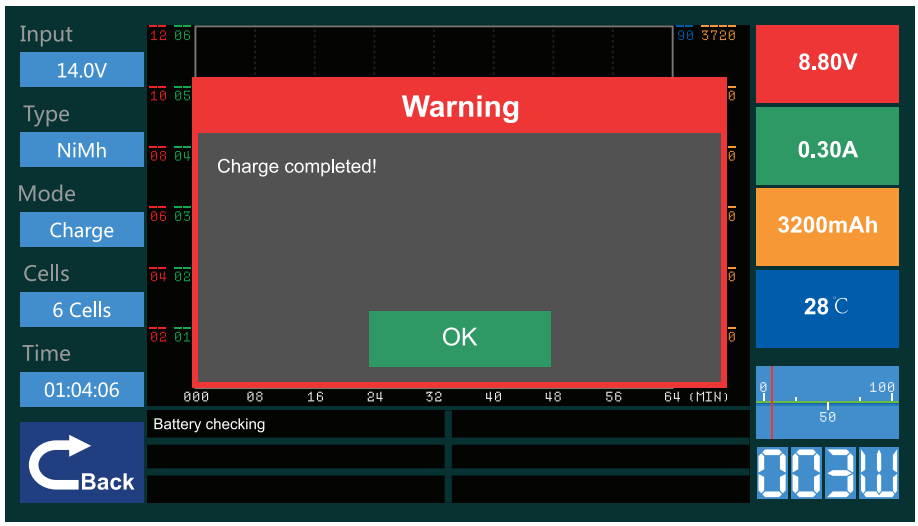


Image 31

【NOTE】The charger will send out an alert and pop-up window if the battery packs' setting is incorrect. (Image 32) All Lipo battery packs setting are the same operation.

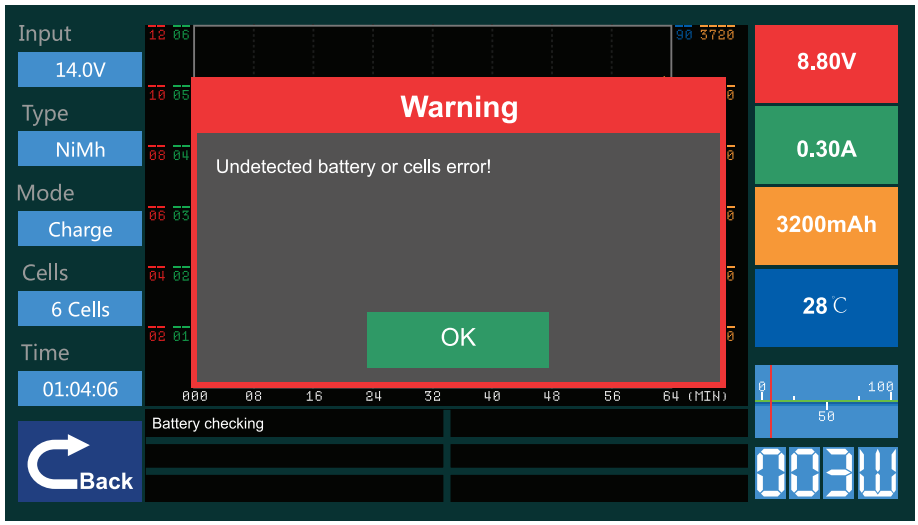


Image 32

Example 3: If you want to charge a pack of Pb battery, please execute the operation as follows,

Step 1: Touch Type icon (Image 33) to enter into Type interface. Touch Pb icon (Image 34) to go back to main interface and continue setting.

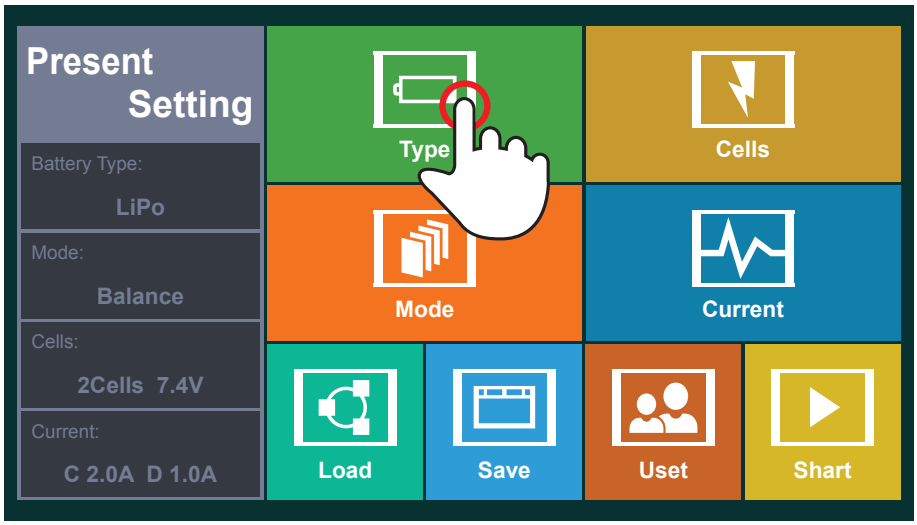


Image 33

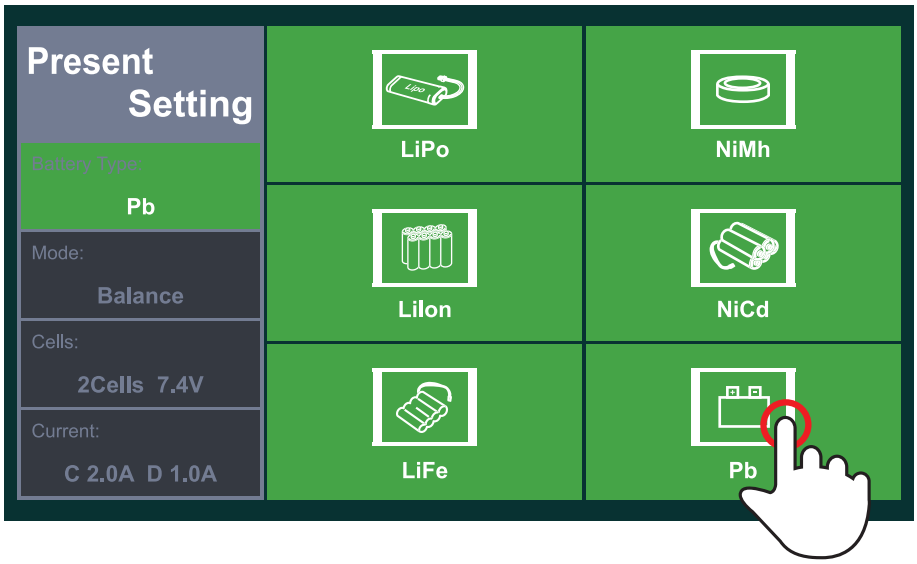


Image 34

Step 2: Touch Mode icon (Image 34) to enter into Mode inter-face. Touch Charge icon (Image 35) to go back to main interface and continue setting.

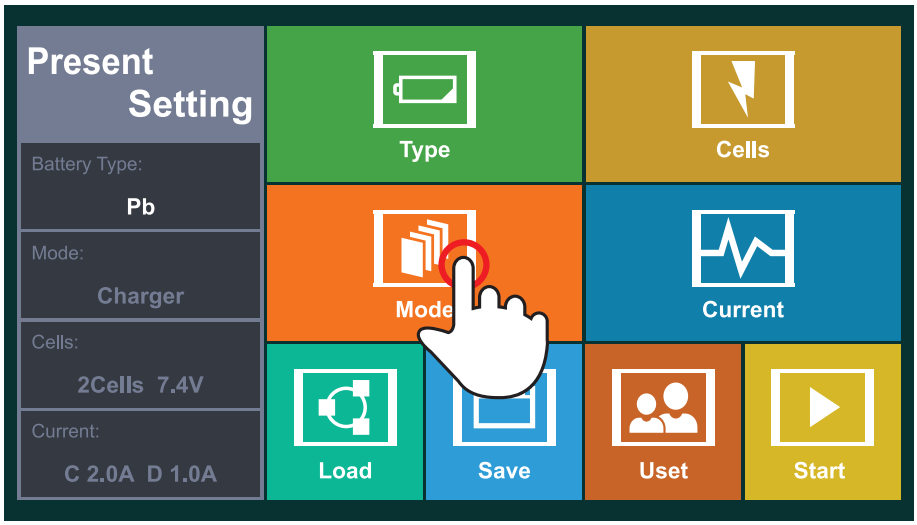


Image 34

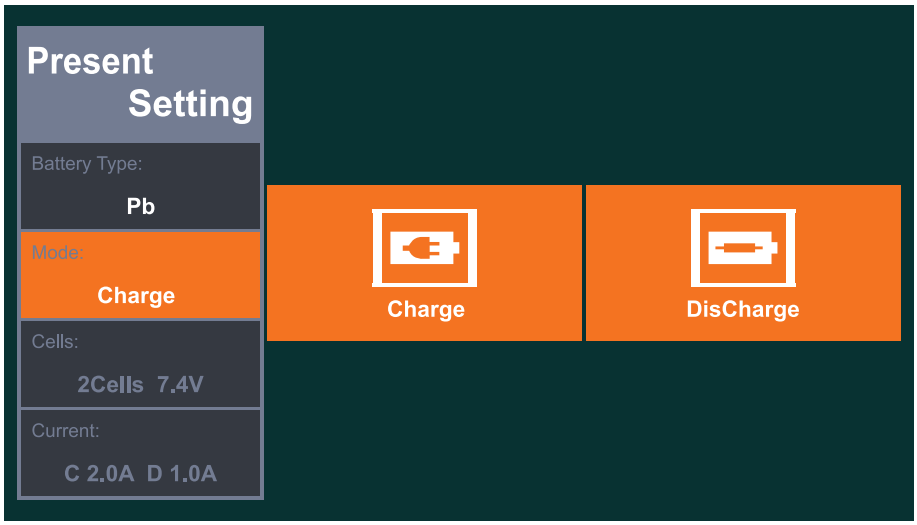


Image 35

【NOTE】There are some options in Mode interface (Image 35). Please set according to your requirement. Image 30 is showing charge process.

Step 3: Touch Cells icon (Image 36) to enter into Cells inter-face. Please set Pb battery packs by sliding (Image 37). Touch OK to go back to main interface and continue setting.

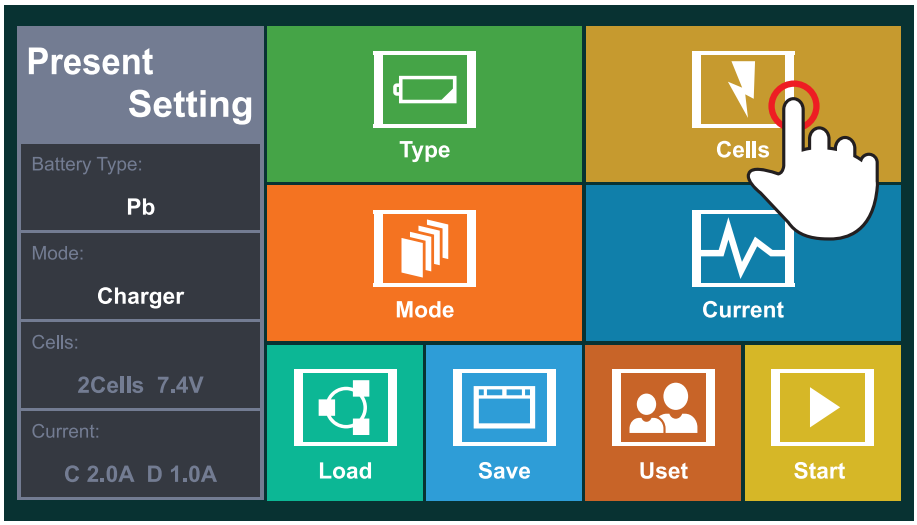


Image 36

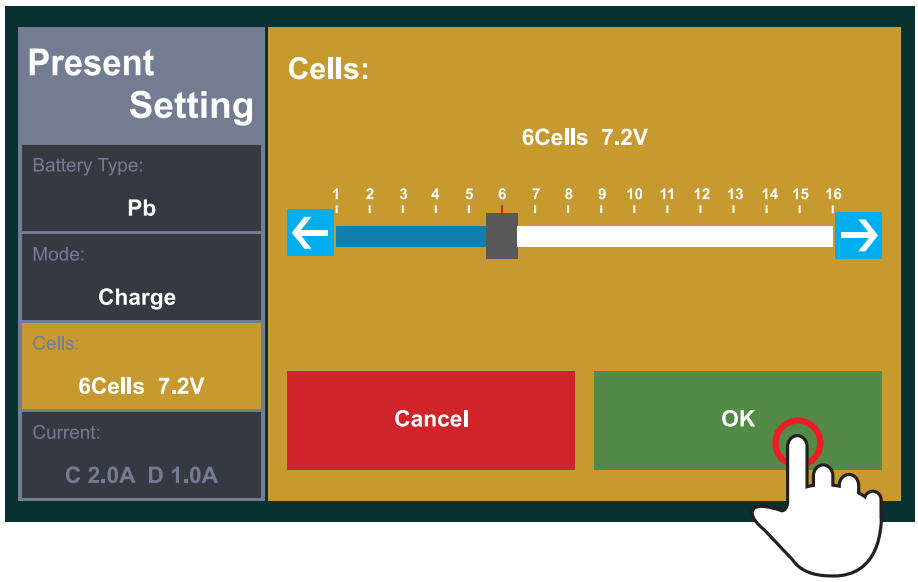


Image 37

【NOTE】Pleasr set according to suitable battery packs.

Step 4: Touch Current icon (Image 38) to enter into Current interface. Please set charge current by sliding (Image 39). Touch OK to go back to main interface and continue setting.

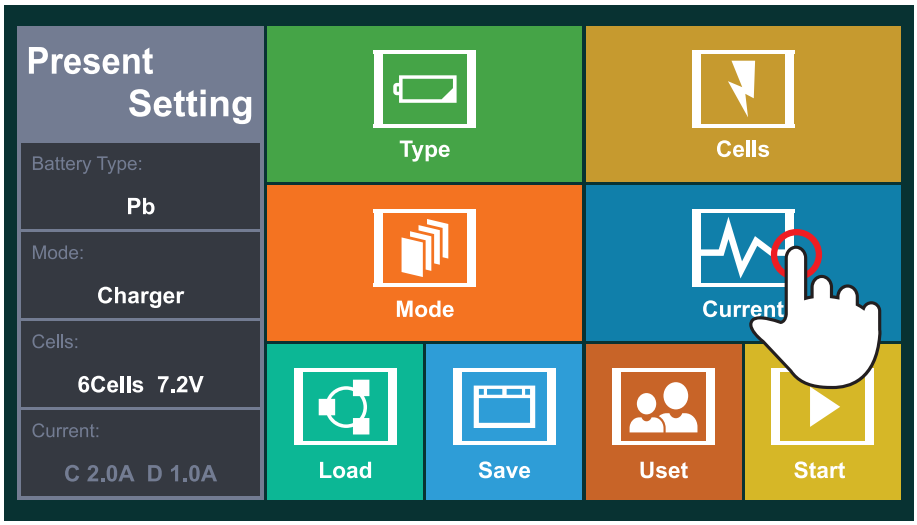


Image 38

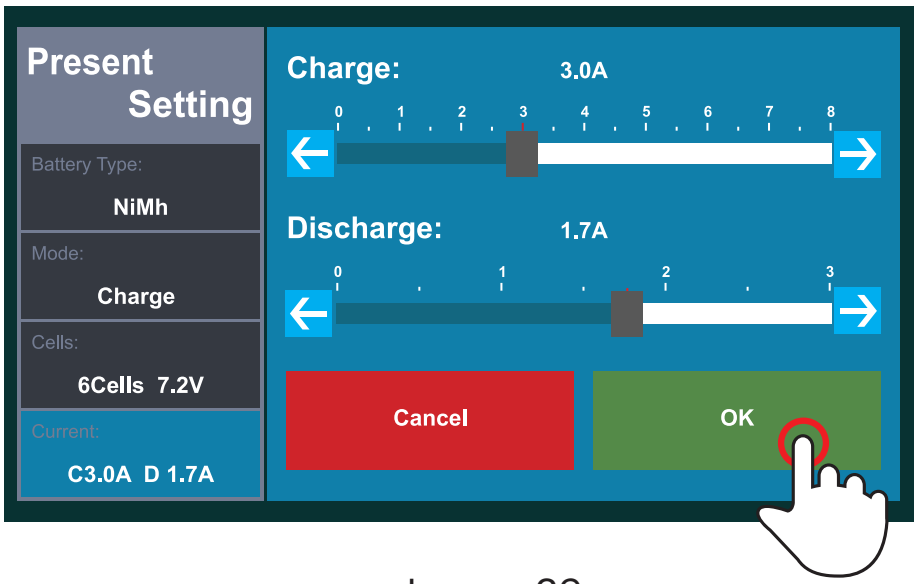


Image 39

【NOTE】Set charge current in charge mode and discharge current in discharge mode. As for Save and Load functions, please see Step 5 and 6 in Example1 for further details.

Step 5: Touch Start icon (Image 40) to enter into Start interface. The charger will check battery status automatically. If everything is OK, the charger will begin to charge. (Image 41)

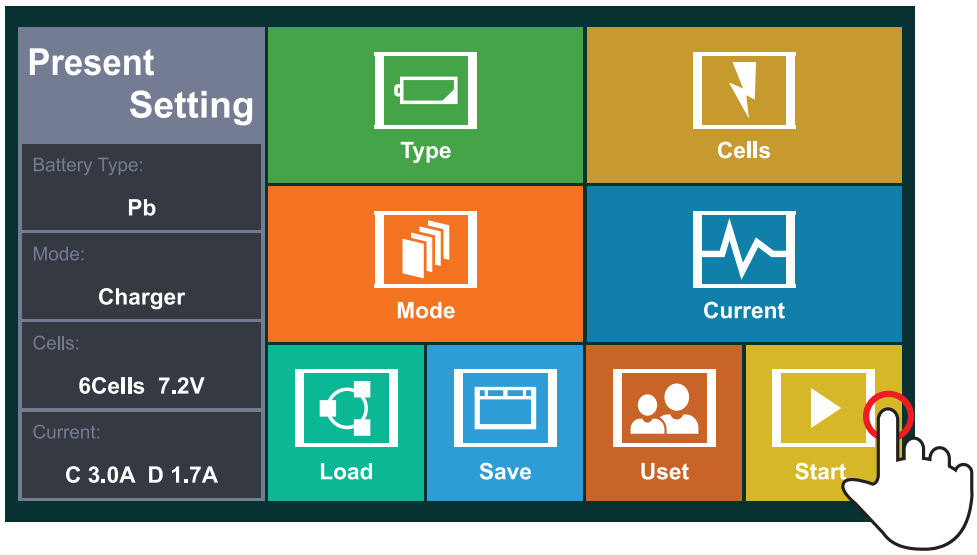


Image 40

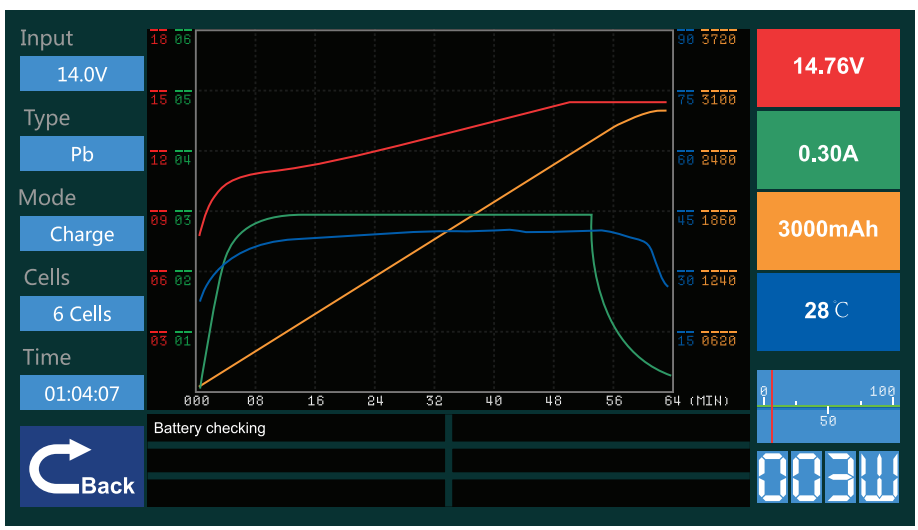


Image 41

【NOTE】The charger will pop-up window when the battery is fully charged. Touch OK to finish charging process (Image 42).

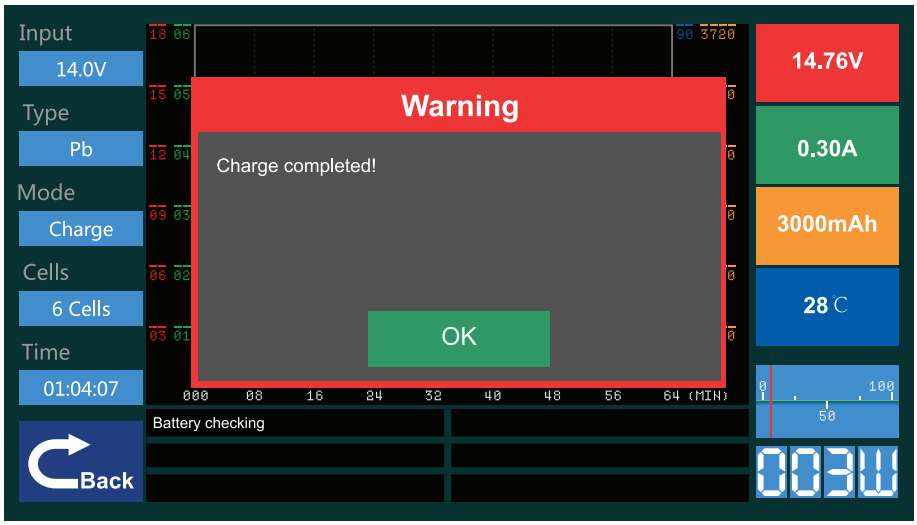


Image 42

【NOTE】The charger will send out an alert and pop-up window if the battery packs' setting is incorrect. (Image 43) All Lipo battery packs setting are the same operation.

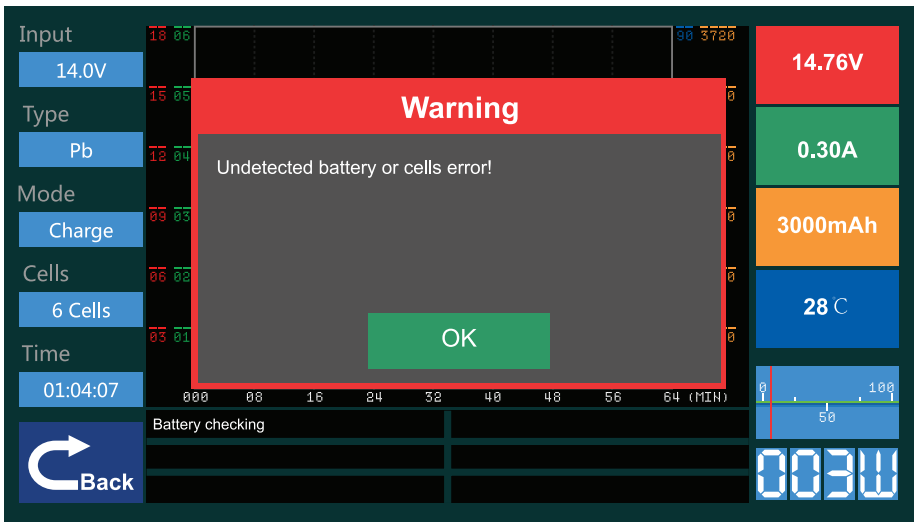


Image 43

iM · OS SYSTEM ADVANCED APPLICATION

iM · OS SYSTEM is brand-new software of charger which was Independently research and develop by iMaxRC. It is the first operation system in the world especially to support touch screen charger,and it’ s going to be Industry standard for touch screen charger series.

Here we will full display the Advanced application Settings for you. Pls touch Uset (Image 44) to enter into advanced application setting interface.(Image 45)

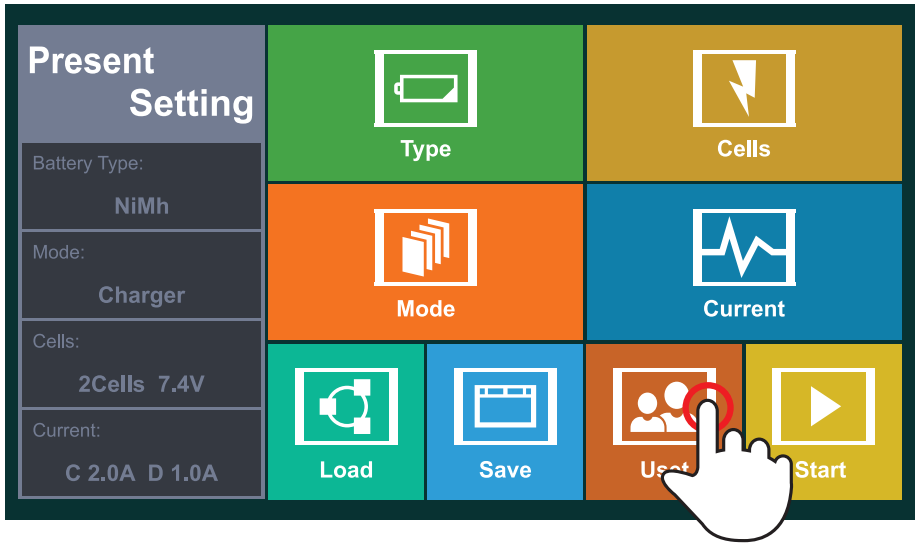


Image 44

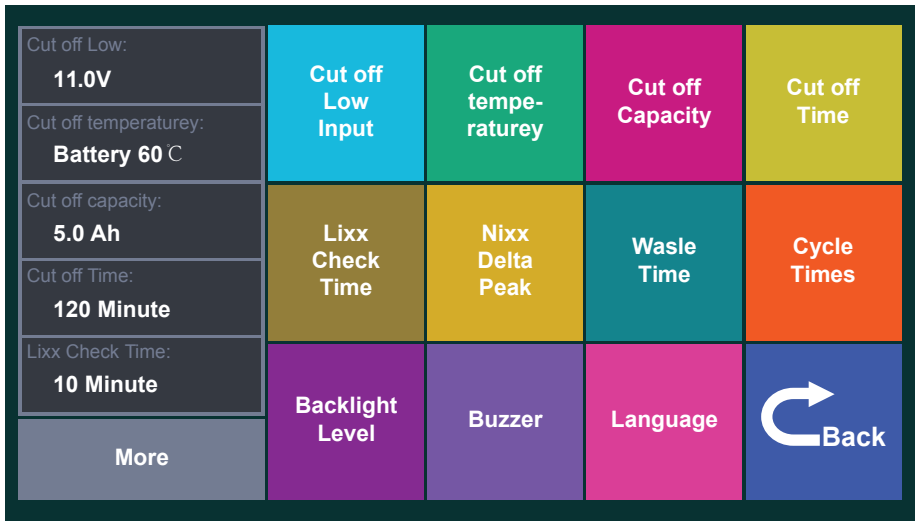


Image 45

Touch “Cut off Low Input”(Image 46), the information bar on left will skip into setting menu(Image 47), touch “OK” after setting done, it will turn back to interface (Image 47), then you can go on with setting of other features.

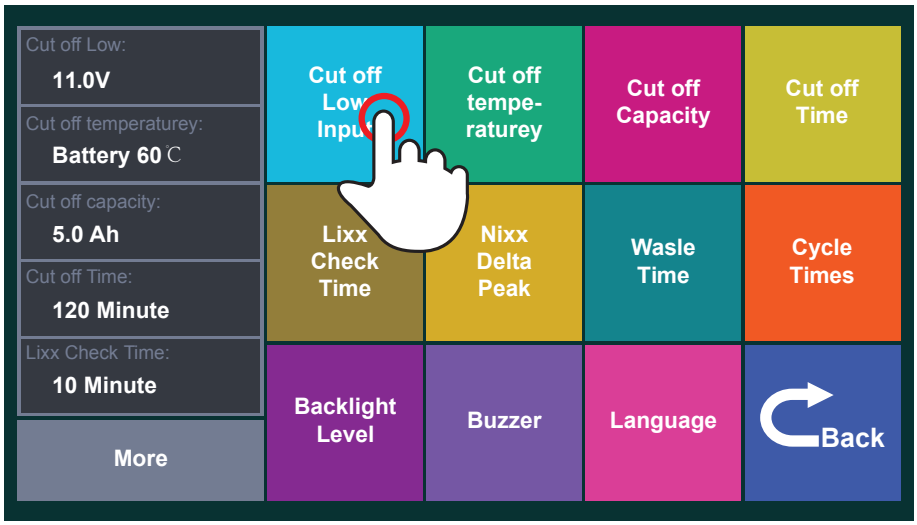


Image 46

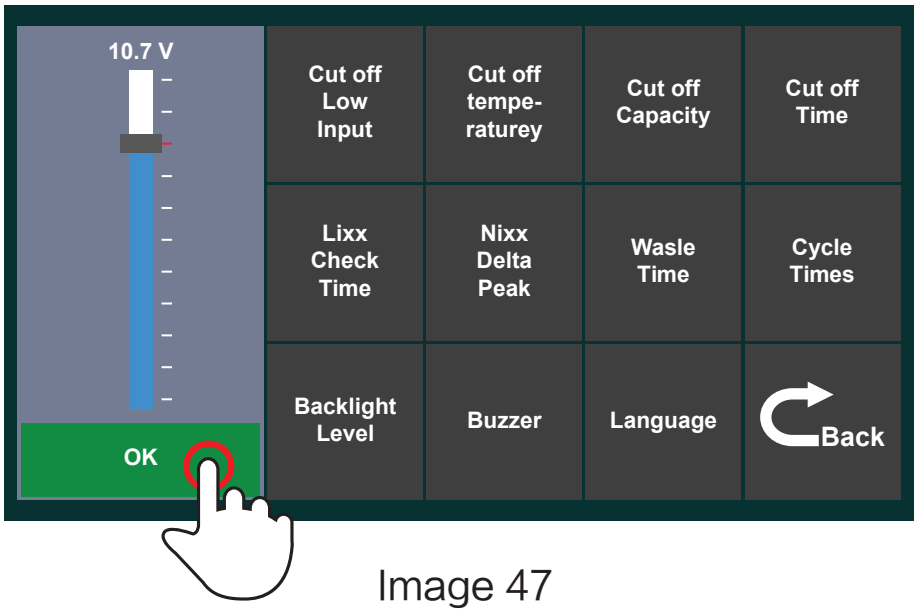


Image 47

Please find detailed list of features on next page.

Cut off Low Input

Cut off Low Input

Range of setting:10−24V. Lowest cut off input voltage, charger will stop charging/discharging when input voltage is lower than setting value.

Cut off tempe-raturey

Cut off Temperature

Range of setting: 40−80° C. Cut off Temperature, char−ger will stop charging/discharging when temp of batteries is lower than setting value.

Cut off Capacity

Cut off Capacity

Range of setting: 0.1Ah−10Ah. Safety capacity. Charger will Stop charging/discharging when capacity of batteries is higher than setting value.

Cut off Time

Cut off Time

Range of setting: 10−200mins. Safety time, charger will stop charging/discharging, when charging/discharging time is less that setting value.

Lixx Check Time

LixxCheckTime

Range of setting: 5−60mins. Time for checking cells count of LiPo battery pack.

Nixx Delta Peak

NixxDeltaPeak

Range of setting: 5−200mV. NiHm/NiCd Delta peak.

Wasle Time

Waste Time

Spacing interval between 2 Cycles. Range of setting: 1−60mins.

Cycle Time

Range of setting: 1−6 times.

Backlight Level

Range of setting: 1−10, Brightness level.

Buzzer

Range of setting: All sounds open, only touch tone closed, All sounds closed.

Language

Language option. Now provisionally only support English interface.

Back

Turn back to main interface

【IMPORTANT NOTICE】X100 charger have 3 parameters to control rotate speed of fan.

1. when temperature of working charger reach 40℃, fan speed will be one level up as temp rise by each 2℃

2. when charging power reach 100W, fan speed will be one level up as charging power rise by each 5W.

3. Fan speed will be one level up as discharging power rise by each 2W.

NOTE: Fan Speed of X100 charger will begin to change in any of above situation.

Please follow the instruction to operate your X100 charger, to insure safety of you and charger, and use it easily. Please keep manual within easy reach, to be easy reference for you and other user.

【NOTE】Procedures, which if not properly followed, can result in potential nullification of any vendor warranties or liabilities.

SAFETY PRECAUTIONS AND WARNINGS

【Warning】Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury. IMAXRC will not be held directly responsible for those damage if they were caused by improper using of user.

Proper Operation Pls put X100 charger on flat operating platform. DO NOT insert any object into air-vent.

Water and Humid Place Please keep charger far away from any place wet or moist, such as bathroom, hand Sink. Keep charger in desiccative place to avoid damage caused by rainy weather.

Charger PLEASE make sure you are holding plug, not pull cord when disconnect power supply. To avoid mechanical damage.

NEVER use X100 charger under following operating environment: the environment full of floating dust, smoke from burning or cooking in air. the place have ultrasonic humidifier (for unfiltered tap water) working on. In rare cases, these smoke or particles in air may float into X100 charger from air-vent. This may lead inner surface of screen appear mist.

Do not Maintain Yourself

X100 charger not include any spare part for user to make the maintenance , never dismantle the product by yourselves. Please contact with IMAXRC authorized distributor for maintenance.

Please note if you dismantle the product by yourselves, this may cause damage of original device. Such kind of damage is not responsible part of our guarantee.

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X100

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