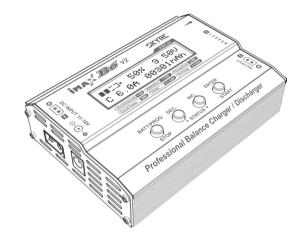


Instruction Manual Version 1.001

SKYRC



This content is subject to change.

Latest version can be downloaded from www.skyrc.com



All specifications and figures are subject to change without notice. Printed in China © 2019.11 7504-1239-02



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A WARNING:

- Never leave the charger unattended when charging the battery.
- LiPo batteries pose a severe risk of fire if not properly handled.

Congratulations on your choice of SKYRC B6 V2 DC Balance Charger/Discharger. This unit is simple to use, but the operation of a sophisticated automatic charger such as SKYRC B6 does require some knowledge on the part of the user. These operating instructions are designed to ensure that you quickly become familiar with its functions. It is therefore important that you read right through the Operating Instructions, Warning and Safety Notes before you attempt to use your new charger for the first time. We hope you have many years of pleasure and success with your new battery charger.

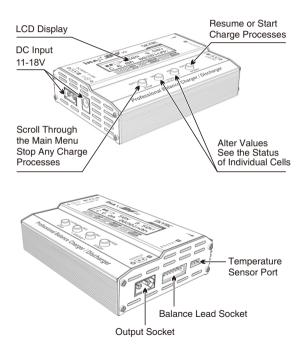
SkyRC B6 V2 is a high-performance, micro processor control charge/discharge with battery management suitable for use with all current battery types(LiPo/LiFe/Li-Ion/LiHV/NiMH/NiCd/Pb) batteries. The charger deliver dedicated 60W integrated power and can fill battery at up to 6A. Except SkyRC normal charging programs, it is versatile with the addition of AGM and Cold modes for Lead Acid(Pb) battery.

This charger can be powered by 11-18V DC, it is able to power DC equipment such as LED pit light, motor checker, etc.

Please BE SURE to read these INSTRUCTIONS, WARNING and SAFETY NOTES before you use the charger for the first time.It can be dangerous to mis-handle batteries and battery chargers, as there is always a risk of batteries catching fire and exploding.

Mishandling batteries and battery chargers is extremely dangerous, which may cause fire and explosion.

Please read this entire operating manual completely and attentively before using this product, as it covers a wide range of information on operating and safety. Or please do use this product in company with a specialist!



Optimized Operating Software

SkyRC B6 V2 features the so-called AUTO function that sets the feeding current during the process of charging/discharging. For Lithium batteries, it can help prevent overcharging which may lead to explosion. It will disconnect the circuit automatically and alarm once detecting malfunction, to achieve maximum safety and minimize the trouble. All the settings can be configured by users.

Voltage Calibration (for expert user only)

SkyRC B6 V2 allows you to calibrate the voltage directly on the device with a 6S LiPo battery. (For more information please contact us at support@skyrc.cn)

Memory of Last Operation

SkyRC B6 V2 will memorize your last operation of charging/ discharging before power off.

AGM Charge and Cold Charge

For Pb batteries, there are two more charging modes: AGM charge and Cold charge.

DJI Battery Program

SkyRC B6 V2 can charge batteries for DJI Mavic/Inspire with the maximum charge current of 4A.

DC/DC Converter

SkyRC B6 V2 charger is integrated with DC power input, pumping max power of 60W with the voltage ranging of 5-26V and 1-6A current.

Battery Memory (Data Store/Load)

The charger can store up to 10 different charge/discharge profiles for each channel. You can keep the data pertaining to program setting of the battery of continuous charging or discharging. Users can call out these data at any time without any special program setting.

Terminal Voltage Control(TVC)

The charger allows user to change the end voltage. (for expert user only)

Balancing Individual Cells Battery During Discharging

During the process of discharging, SKYRC B6 V2 can monitor and balance each cell of the battery individually. Error message will be indicated and the process will be ended automatically if the voltage of any single one cell is abnormal.

Storage Mode of Lithium Battery

"STORAGE" has the capacity to control the final battery voltage, which is necessary and helpful for a rarely used battery.

Re-Peak Mode of NiMH/NiCd Battery

In re-peak charge mode, the charger can peak charge the battery once, twice or three times in a row automatically. This is good for making the battery fully charged.

Cyclic Charging/Discharging

1 to 5 cyclic and continuous process of charge > discharge or discharge > charge is operable for battery refreshing and balancing to stimulate the battery's activity.

Battery Voltage Meter

The user can check battery's total voltage, the highest voltage, the lowest voltage and each cell's voltage.

Battery Internal Resistance Meter

The user can check battery voltage and battery internal resistance.

Capacity Limit

The charging capacity is always calculated as the charging current multiplied by time. If the charging capacity exceeds the limit, the process will be terminated automatically when you set the maximum value.

Processing Time Limit

You can also limit the maximum process time to avoid any possible defect.

Temperature Threshold*

The battery's internal chemical reaction will cause the temperature of the battery to rise. If the temperature limit is reached, the process will be terminated.

* This function is only available by connecting optional temperature probe, which is not included in the package.

These warnings and safety notes are particularly important. Please follow the instructions for maximum safety; otherwise the charger and the battery can be damaged or at worst it can cause a fire.

- Never leave the charger unattended when it is connected to its power supply. If any malfunction is found, TERMINATE THE PROCESS AT ONCE and refer to the operation manual.
- Keep the charger well away from dust, damp, rain, heat, direct sunshine and vibration. Never drop it.

The allowable DC input 11-18V.

- This charger and the battery should be put on a heat-resistant, noninflammable and nonconductive surface. Never place them on a car seat, carpet or similar. Keep all the inflammable volatile materials away from operating area.
- Make sure you know the specifications of the battery to be charged or discharged to ensure it meets the requirements of this charger. If the program is set up incorrectly, the battery and charger may be damaged .It can cause fire or explosion due to overcharging.

	LiPo	Lilon	LiFe	LiHV	NiCd	NiMH	Pb
Nominal Voltage	3.7V/cell	3.6V/cell	3.3V/cell	3.7V/cell	1.2V/cell	1.2V/cell	2.0V/cell
Max Charge Voltage	4.2V/cell	4.1V/cell	3.6V/cell	4.35V/cell	1.5V/cell	1.5V/cell	2.46V/cell
Storage Voltage	3.8V/cell	3.7V/cell	3.3V/cell	3.85V/cell	n/a	n/a	n/a
Allowable Fast Charge	≦1C	≦1C	≦4C	≦1C	1C-2C	1C-2C	≦0.4C
Min. Discharge Voltage	3.0-3.3V/cell	2.9-3.2V/cell	2.6-2.9V/cell	3.1-3.4V/cell	0.1-1.1V/cell	0.1-1.1V/cell	1.8V/cell

Be very careful to choose the correct voltage for different types of battery otherwise you may cause damage to the batteries. Incorrect settings could cause the cells to fire or explode.

Standard Battery Parameters

Never attempt to charge or discharge the following types of batteries.

A battery pack which consists of different types of cells (including different manufacturers)

A battery that is already fully charged or just slightly discharged. Non-rechargeable batteries (Explosion hazard).

Batteries that require a different charge technique from NiCd, NiMh, LiPo or Gel cell (Pb, Lead acid).

A faulty or damaged battery.

A battery fitted with an integral charge circuit or a protection circuit. Batteries installed in a device or which are electrically linked to other components.

Batteries that are not expressly stated by the manufacturer to be suitable for the currents the charger delivers during the charge process.

Please bear in mind the following points before commencing charging:

Did you select the appropriate program suitable for the type of battery you are charging?

Did you set up adequate current for charging or discharging? Have you checked the battery voltage? Lithium battery packs can be wired in parallel and in series, i.e. a 2 cell pack can be 3.7V (in parallel) or 7.4V (in series).

Have you checked that all connections are firm and secure? Make sure there are no intermittent contacts at any point in the circuit.

Charging

During charge process, a specific quantity of electrical energy is fed into the battery. The charge quantity is calculated by multiplying charge current by charge time. The maximum permissible charge current varies depending on the battery type or its performance, and can be found in the information by the battery manufacturer. Only batteries that are expressly stated to be capable of quickcharge are allowed to be charged at rates higher than the standard charge current. Connect the battery to the terminal of the charger: red is positive and black is negative. Due to the difference between resistance of cable and connector, the charger can not detect resistance of the battery pack, the essential requirement for the charger to work properly is that the charge lead should be of adequate conductor cross-section, and high quality connectors which are normally goldplated should be fitted to both ends.

Always refer to the manual by battery manufacturer about charging methods, recommended charging current and charging time. Especially, the lithium battery should be charged according the charging instruction provided by the manufacturer strictly.

Attention should be paid to the connection of lithium battery especially.

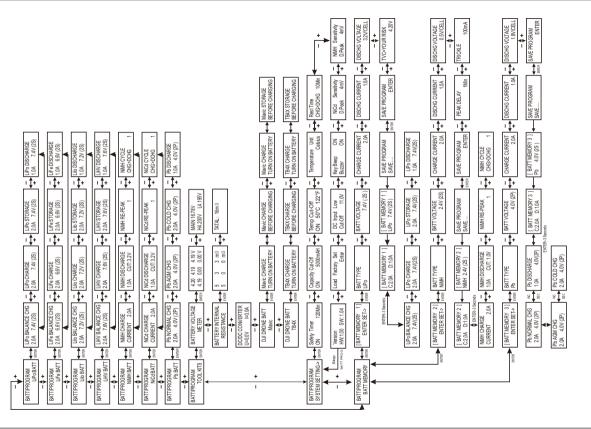
Do not attempt to disassemble the battery pack arbitrarily.

Please get highlighted that lithium battery packs can be wired in parallel and in series. In the parallel connection, the battery s capacity is calculated by multiplying single battery capacity by the number of cells with total voltage stay the same. The voltage s imbalance may cause fire or explosion .Lithium battery is recommended to charge in series.

Discharging

The main purpose of discharging is to clean residual capacity of the battery, or to reduce the battery voltage to a defined level. The same attention should be paid to the discharging process as charging. The final discharge voltage should be set up correctly to avoid deep-discharging. Lithium battery can not be discharged to lower than the minimum voltage, or it will cause a rapid loss of capacity or a total failure. Generally, lithium battery doesn't need to be discharged. Please pay attention to the minimum voltage of lithium battery to protect the battery.

Some rechargeable batteries have a memory effect. If they are partly used and recharged before the whole charge is accomplished, they remember this and will only use that part of their capacity next time. This is a memory effect. It is said that NiCd and NiMH batteries are suffering from memory effect. NiCd has more memory effect than NiMH.



BATT/PROG	DEC.	INC.	ENTER
\bigcirc	\bigcirc	\bigcirc	\bigcirc
STOP	■ ST/	ATUS F	START

BATT PROG / STOP Button:

It is used to stop the progress or go back to previous step/screen **DEC Button:**

It is used to go through the menus and decrease the parameter value INC Button:

It is used to go through the menus and increase the parameter value ENTER / START Button:

It is used to enter parameter or store parameter on screen.

When you are willing to alter the parameter value in the program, press the START/ENTER button to make it blink then change the value by pressing DEC and INC button. The value will be stored by re-pressing the START/ENTER button. If there is another parameter can be altered in the same screen, when you confirm the first parameter value, the next parameter value will start to blink which means it is ready to alert.

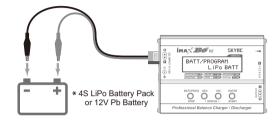
When you are willing to start the progress, press and hold the START/ENTER button for 3 seconds. When you are willing to stop the progress or go back to previous step/screen, press the BATT PROG/STOP button once.

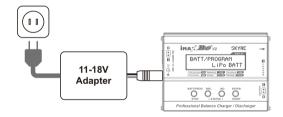
When you power on the charger, it will enter LiPo Battery balance program directly. You could change the mode (balance mode, normal charge mode, fast charge mode, store mode or discharge mode), enter the desired charging/discharging mode, set the referred parameter and start the progress.

If you have no request for LiPo Battery program, please press the BATT PROG/STOP button to enter BATT PROGRAM screen.

1. Connecting to power source

12V DC Battery / Power Adapter Output DC 11-18V



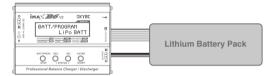


2. Connecting the battery



TO AVOID SHORT CIRCUITS, ALWAYS CONNECT THE CHARGE LEADS TO THE CHARGER FIRST, AND THEN TO THE BATTERY. REVERSE THE SEQUENCE WHEN DISCONNECTING THE PACK.

1) LiPo Battery Connection



The balance wire of the battery must be connected to the charger. Always remember to keep right polarity in the connection. Please refer to the wiring diagram above, which shows a correct way for your LiPo battery connection in the balance charge mode.

In the other modes, there is no request to connect the balance wire to the balance socket in the charger.

But we suggest to charge your battery in balance mode for better performance.

2) NiMH/NiCd or Pb Battery Connection



Charging Program

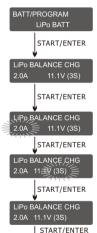
Depends on different battery type, the operation programs are different.

Batt Type	Operation Program	Description
LiPo LiHV Lilon LiFe	CHARGE	This charging mode is for charging LiPo/LiHV/LiFe/Lilon battery in normal mode.
	DISCHARGE	This mode is for discharging LiPo/LiHV/LiFe/Lilon battery.
	STORAGE	This program is for charging or discharging lithium battery which will not be used for long time.
	BAL CHARGE	This mode is for balancing the voltage of lithium-polymer battery cells while charging.
	CHARGE	The charger will charge NiMH and NiCd batteries using the charge current set by the user.
	DISCHARGE	This mode is for discharging NiMH/NiCd battery.
NiMH NiCd	RE-PEAK	In re-peak charge mode, the charger can peak charge the battery once, twice or three times in a row automatically. This is good for confirming the battery is fully charged, and for checking how well the battery receives fast charges.
	CYCLE	1 to 5 cyclic and continuous process of charge>discharge or discharge>charge is operable for battery refreshing and balancing to stimulate the battery's activity.
	NORMAL CHG	This mode is for charging Pb battery.
Pb	AGM CHG	This mode is for charging AGM battery.
PD	COLD CHG	This mode is for charging Pb battery in cold days when the temperature is 5 $^\circ\!{\rm C}$ to -20 $^\circ\!{\rm C}.$
	DISCHARGE	This mode is for discharging Pb battery.
Mavic	CHARGE	This charging mode is for charging Mavic/TB4X battery in normal mode.
TB4X	STORAGE	This program is for charging or discharging Mavic/TB4X battery which will not be used for long time.

charger instantly ready to go!

(2) If you do not wish to use the battery program memories, this charger can be manually set before each use.

The following flowchart shows how the program is set manually:



> 3 Seconds

BATT/PROGRAM Select

Press INC and DEC to go through all the programs and press START/ENTER to enter LiPo BATT Program.

Mode Select

Press INC and DEC to go through all the modes and press START/ENTER to enter LiPo Balance Charge Mode.

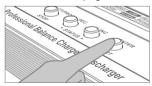
Battery Setting

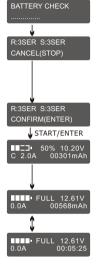
Press START/ENTER, the present value will start to blink. Press INC and DEC to change the value and press START/ENTER to confirm your setting.

At the same time, the battery pack's cell count will start to blink, press INC and DEC to change the value and press START/ ENTER to confirm your setting.

Program Start

Press and hold START/ENTER for 3 seconds to start the program.





Program Stop

During the charging process, press STOP to stop the charging process.



R shows the number of cells detected by the charger and S is the number of cells set by you on the previous screen. If the two numbers are not identical, press STOP to go back to the previous screen to recheck the number of cells of the battery pack that you set before going ahead.

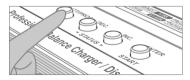
R shows the number of cells detected by the charger and S is the number of cells set by you on the previous screen. If the two numbers are identical, press START/ENTER to start the charging process.

Charging Status Monitor

During charge process, real-time status will be shown as seen on the left. Print INC or DEC, more status will show on the screen.

Program Complete

Once the battery is fully charged, the screen will read "FULL" and the charger will emit a ringing sound. The charger also displays battery voltage, charged capacity and elapsed time.



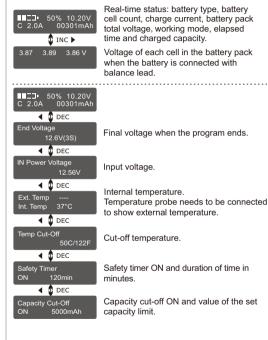


Please scan and watch the tutorial video about how to charge LiPo battery in balance mode.



VARIOUS INFORMATION DURING THE PROCESS

Press INC or DEC during the charging or discharging process to view further pertinent information on the LCD screen.



NiMH/NiCd:

This program is only suitable for charging/discharging NiMH/NiCd batteries. The B6 V2 offers the following NiMH/NiCd charge modes: Charge, Discharge, Re-Peak and Cycle.

Selecting the Battery Type:

After powering on the B6 V2, press the INC or DEC button repeatedly until you reach the appropriate program for the battery type you wish to charge. For this example we have chosen the "NiMH BATT" or "NiCd BATT" program. Now press the ENTER button to enter the desired program.

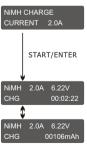


BEFORE YOU BEGIN CHARGING YOUR BATTERY, MAKE SURE YOU ARE CHARGING NIMH/NICD BATTERIES. CHARGING LIPO BATTERY UNDER NIMH/ NICD BATTERY PROGRAM WILL CAUSE FIRE.

NiMH/NiCd Charge Mode:

BEFORE YOU BEGIN CHARGING YOUR BATTERY, MAKE SURE YOU HAVE READ AND UNDERSTOOD ALL OF THE WARNINGS AND SAFETY INFORMATION CONTAINED ON PAGES 05-07.

After selecting the correct battery type, if the screen does not read "CHARGE", use the DEC or INC buttons to change it to the "CHARGE" mode.

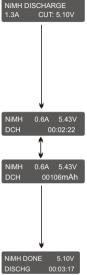


Press the ENTER button and the amp rate value will begin blinking. Use the DEC or INC button to adjust the value to the desired rate. Follow the instructions provided on your battery when setting the charge current.

Press and hold the ENTER button for 3 seconds to start charging.

Once charging has commenced, the charger will display the following real-time information: battery type, charging current, battery voltage, working mode, elapsed time and charged capacity. Once the battery is fully charged, the screen will read "FULL" and the charger will emit a ringing sound. You can press the STOP button at any time during the charging process to stop charging.

NiMH/NiCd Discharge Mode:



After selecting the correct battery type, use the INC or DEC button to select the "DISCHARGE" mode. Press the START button and the amp rate value will begin flashing. Use the INC or DEC buttons to adjust the value to the desired discharge rate. Press the START button again and the voltage cut-off will begin to flash. Use the INC or DEC button to adjust the value to the desired rate.

Follow the instructions provided on your battery when setting the voltage cut-off. The T200 will stop discharging when the battery has reached the preset voltage cut-off.

Press and hold the START button for 3 seconds to start discharging. Once discharging has commenced, the charger will display the following real-time information: battery type, discharging current, battery voltage, working mode, elapsed time and discharged capacity.

When discharging is complete, the screen will read "DONE" and the charger will emit a ringing sound.

The charger will display the elapsed time, end voltage and the discharged capacity in mAh. You can press the STOP button at any time during the discharging process to stop the

discharge process.

NiMH/NiCd Re-Peak Mode:

Applicable to NiMH and NiCD batteries only, in re-peak mode the charger can peak- charge the battery once, twice, or three times in a row automatically. This process is good for confirming that the battery is fully charged and for verifying how well the battery can accept a fast charge. A five-minute cool-down delay occurs after each re-peak charge.

IN RE-PEAK MODE, THE B6 V2 USES THE CHARGE AMPERAGE AND VOLTAGE SETTINGS ENTERED IN CHARGE MODE.

NIMH RE-PEAK 2 START/ENTER NIMH 2.0A 6.28V RPC 00:04:04 NIMH 2.0A 6.28V RPC 00686mAh After selecting the correct battery type, use the INC or DEC button to select the "RE-PEAK" mode. Press the START button and the Re-peak cycle number 1 begins to flash on the screen. Use the INC or DEC button to scroll through the cycle count and set a number between 1 and 3.

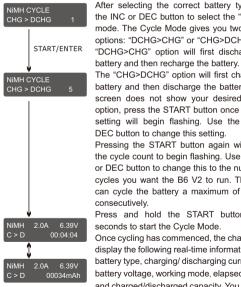
Press and hold the START button for 3 seconds to start the re-peak process.

Once the Re-Peak process has begun, the charger will display the following real-time information: battery type, charging current, battery voltage, elapsed time and charged capacity.

Once the Re-Peak process has completed, the screen will read "DONE" and the charger will emit a ringing sound. The charger will display the charge/discharge capacity for each cycle. Using the + and - buttons, you can scroll through the history data of each cycle.

NiMH/NiCd Cycle Mode:

The B6 V2 makes cycling of NiMH/NiCd batteries easy. The process of discharging and recharging (cycling) can be performed automatically with one simple step and will improve the performance of NiMH/NiCd batteries. We strongly recommend cycling any battery that has been discharged and stored for a period of time. This will increase the remaining usable battery life and also improve the battery performance.



After selecting the correct battery type, use the INC or DEC button to select the "CYCLE" mode. The Cycle Mode gives you two cycling options: "DCHG>CHG" or "CHG>DCHG". The "DCHG>CHG" option will first discharge the

The "CHG>DCHG" option will first charge the battery and then discharge the battery. If this screen does not show your desired cycling option, press the START button once and this setting will begin flashing. Use the INC or DEC button to change this setting.

Pressing the START button again will cause the cycle count to begin flashing. Use the INC or DEC button to change this to the number of cycles you want the B6 V2 to run. The T200 can cycle the battery a maximum of 5 times

Press and hold the START button for 3 seconds to start the Cycle Mode.

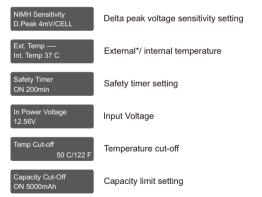
Once cycling has commenced, the charger will display the following real-time information: battery type, charging/ discharging current, battery voltage, working mode, elapsed time and charged/discharged capacity. You will also see "D>C" or "C>D" This will indicate which cvcling order vou have chosen.

Either "D" or "C" will be flashing. This flashing indicates which part of the cycle is currently being executed.

Once the cycling process is complete, the screen will read "DONE" and the charger will emit a ringing sound. The B6 V2 will display the charged/discharged capacity for each cycle. Using the + and buttons, you can scroll through this data for each cycle.

Additional NiMH/NiCd Process Information:

During the NiMH/NiCd battery charging/discharging process the B6 V2 can display a variety of information. Using the INC or DEC buttons, you can also view the following information:



Pb Lead-Acid Battery Program Pb (Lead-Acid):

BATT/PROGRAM Pb BATT

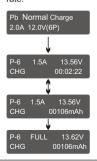
This program is only suitable for charging Pb(lead-acid) batteries with nominal voltage ranging from 2 to 20V which are significantly different from NiMH/NiCd batteries. Pb batteries are suggested to charge with a low current of 0.1C and cannot be used for fast charging. Please follow the instructions provided by the battery manufacturer.

The B6 offers the following Pb charge modes: Charge, AGM, COLD and Discharge.

Pb Charge Mode:

After selecting the correct battery type, use the INC or DEC button to change it to the "CHARGE" mode.

Press the START button and the amp rate value will begin flashing. Use the INC or DEC buttons to adjust the value to the desired charge rate. The amp rate should be set to 1/10th of capacity. For example, if you are charging a 20Ah battery the charge rate should be set to 2A. Follow the instructions provided on your battery when setting the amp rate



Press the START button again and the nominal battery pack voltage will begin flashing. Use the INC or DEC button to set the voltage and the number of cells.

Press and hold the START button for 3 seconds to start charging.

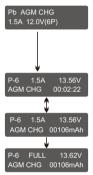
Once charging has commenced, the charger will display the following real-time information: battery type, charging current, battery voltage, working mode, elapsed time and charged capacity.

When charging is complete, the screen will read "FULL" and the charger will emit a ringing sound.

Pb AGM Mode:

After selecting the correct battery type, use the INC or DEC button to change it to the "AGM CHARGE" mode.

Press the START button and the amp rate value will begin flashing. Use the INC or DEC buttons to adjust the value to the desired charge rate. The amp rate should be set to 1/10th of capacity. For example, if you are charging a 20Ah battery the charge rate should be set to 2A. Follow the instructions provided on your battery when setting the amp rate.



Press the START button again and the nominal battery pack voltage will begin flashing. Use the INC or DEC button to set the voltage and the number of cells.

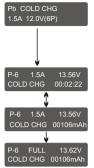
Press and hold the START button for 3 seconds to start charging.

Once charging has commenced, the charger will display the following real-time information: battery type, charging current, battery voltage, working mode, elapsed time and charged capacity.

When charging is complete, the screen will read "FULL" and the charger will emit a ringing sound.

Pb Lead-acid Battery Program

Pb Cold Mode:



Press the START button again and the nominal battery pack voltage will begin flashing. Use the INC or DEC button to set the voltage and the number of cells.

Press and hold the START button for 3 seconds to start charging.

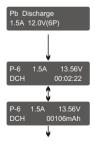
Once charging has commenced, the charger will display the following real-time information: battery type, charging current, battery voltage, working mode, elapsed time and charged capacity.

When charging is complete, the screen will read "FULL" and the charger will emit a ringing sound.

Pb Discharge Mode:

After selecting the correct battery type, use the INC or DEC buttons to change it to the "DISCHARGE" mode.

Press the START button and the amp rate value will begin flashing. Use the INC or DEC buttons to adjust the value to the desired discharge rate. Follow the instructions provided with your battery when setting the amp rate.



Press the START button again and the nominal battery pack voltage will begin flashing. Use the INC or DEC buttons to set the voltage and the number of cells.

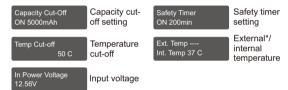
Press and hold the START button and discharging will begin.

P-6 DONE 13.62V DCHG 00106mAh Once discharging has commenced, the charger will display the following real-time information: battery type, cell count, discharging current, battery voltage, elapsed time and discharged capacity.

When discharging is complete, the screen will read "DONE" and the charger will emit a ringing sound.

Additional Pb Process Information:

During the Pb battery charging/discharging process the B6 V2 can display a variety of information. Using the INC or DEC buttons you can also view the following information:



DJI Battery Program

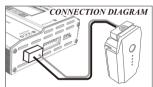
This program is only suitable for charging/ discharging DJI Mavic and TB4X battery. B6 offers two operation modes: charge and storage.

Selecting the Battery Type:

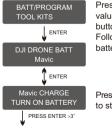
After powering on the B6 V2, press DEC or INC, DJI BATT program involved in the "TOOL KITS" program, press the INC or DEC button repeatedly until you reach the appropriate program for the battery type you wish to charge. For this example we have chosen the "DJI DRONE BATT Mavic" or "DJI DRONE BATT TB4X" program. Now press the ENTER button to enter the desired program.

Charge Mode:

Connect the battery to the charger as show on the diagram. Turn on the battery before you put it in charging mode.



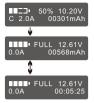
Note: Mavic charging cable is not included in the package

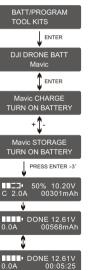


Press the Power Button once Then Press Again and Hold for 2 Seconds to Turn On

Press the ENTER button and the amp rate value will begin blinking. Use the INC or DEC button to adjust the value to the desired rate. Follow the instructions provided on your battery when setting the charge current.

Press and hold the ENTER button for 3 seconds. to start charging.





DJI Battery Program

Once charging has commenced, the charger will display the following real-time information: charging current, battery voltage, working mode, elapsed time and charged capacity. Once the battery is fully charged, the screen will read "FULL" and the charger will emit a ringing sound. You can press the STOP button at any time during the charging process to stop charging.

Storage Mode:

When the battery is idle for temporary days, it is better to charge/ discharge the battery to 65% of total power in order to prevent swelling.

Turn on the battery before you put it in storage mode

After selecting the correct battery type, use the INC or DEC button to change the charge mode to "STORAGE" mode setting.

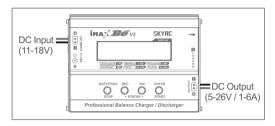
Press the ENTER button and the amp rate value will begin blinking. Use the INC or DEC button to adjust the value to the desired rate. Follow the instructions provided on your battery when setting the charge current.

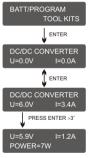
Press and hold the ENTER button for 3 seconds. to start charging.

Once charging has commenced, the charger will display the following real-time information: charging current, battery voltage, working mode, elapsed time and charged capacity. Once the battery is fully charged, the screen will read "DONE" and the charger will emit a ringing sound. You can press the STOP button at any time during the charging process to stop charging.

DC / DC Converter

B6 V2 charger is integrated with a DC/DC converter. A DC/DC converter is an electronic circuit that converts a source of direct current (DC) from one voltage level to another. It is a type of electric power converter. For B6 V2, the output voltage range from 5-26V and output current range from 1-6A. The maximum power is 60W.





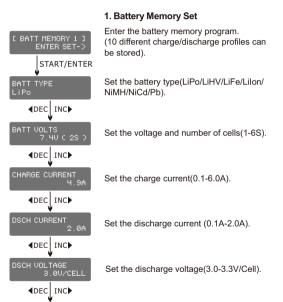
This program can be found in the "TOOL KITS", press DEC or INC button repeatedly until you reach "DC/DC CONVERTER" program, double press the ENTER, then press DEC or INC to set the output voltage and current.

Press and hold the ENTER button for 3 seconds, the charger will start to work as a power supply, you can read the output voltage/ current / power on the screen.

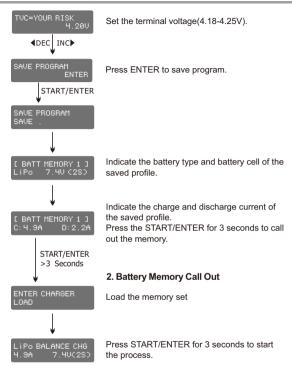
Caution: The maximum DC Power output is 60 Watts. Please check your device loading before you allocate the power.

The charger can store up to 10 different charge/discharge profiles for your convenience, and the stored profiles can be recalled quickly without having to go through the setup process.

When you are willing to alter the parameter value in the program, press START/ENTER to make it blink then change the value with INC or DEC. The value will be stored by pressing START/ENTER once. Note: All following screen are taking 2S(7.4V) LiPo battery for example.



Battery Memory Set and Call Out



It will be operated with the default value of the essential user settings when it is powered on for the first time. The screen displays the following information in sequence and the user can change the value of parameter on each screen.

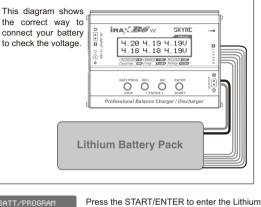
When you are willing to alter the parameter value in the program, press START/ENTER to make it blink then change the value with INC or DEC. The value will be stored by pressing START/ENTER once.

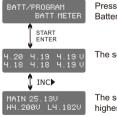
ITEM	SELECTION	DESCRIPTION
Safety Tiner ON 120Min	OFF/ ON (1-720 Min)	When you start a charge process, the integral safety timer automatically starts running at the same time. This is programmed to prevent overcharge the battery if it proves to be faulty, or if the termination circuit cannot detect the battery full. The value for the safety timer should be generous enough to allow a full charge of the battery.
Capacity Cut-Off ON 5000mAH	OFF/ ON (100-50000mAh)	This program sets the maximum charge capacity that will be supplied to the battery during charge. If the delta peak voltage is not detected nor the safety timer expired by any reason, this feature will automatically stop the process at the selected capacity value.
Temp Cut-Off ON 50 C 122 F	OFF/ ON (20°C/68°F - 80°C/176°F)	The battery's internal chemical reaction will cause the temperature of the battery to rise. If the temperature limit is reached, the process will be terminated.
Temperature Unit Celsius	Celsius Fahrenheit	You can choose the temperature displayed by Celsius or Fahrenheit as you like.
RestTine CHG>DCHG 10Min	1-60Min	A rest time allowing the battery to cool down between charging/discharging cycle.

ITEM	SELECTION	DESCRIPTION
NiMH Sensitivity D.Peak Default	Default: 4mV/Cell	This program is for NiMH/NiCd battery only. When the charger detects the delta peak value
NiCd Sensitivity D.Peak Default	3-15mV/Cell	reaches the value you set, the charger will say the battery is fully charged.
Key Beep ON Buzzer ON	OFF/ON	The beep sounds at every time touching the buttons to confirm your action. The beep or melody sounded at various times during operation to alert different mode changes.
DC Input Low Cut-Off 11.0V	10-12V	There will be error message when DC input voltage is lower than the reset value.
Load Factory Set Enter		Press ENTER to load factory default setting.
Version HW:1.00 SW: 1.04		It indicates the hardware and firmware version.

The user can check battery's total voltage, the highest voltage, the lowest voltage and each cell's voltage.

Please connect the battery to the charger main battery lead to battery socket and balance wires to balance socket.





Press the START/ENTER to enter the Lithium Battery Meter program.

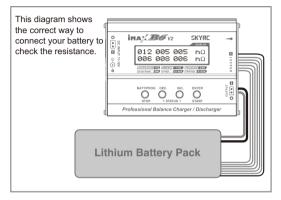
The screen indicate each cell's voltage.

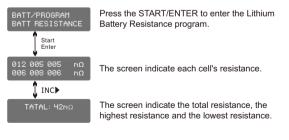
The screen indicate the total voltage, the highest voltage and the lowest voltage.

Battery Resistance Meter

The user can check battery's total resistance, the highest resistance, the lowest resistance and each cell's resistance.

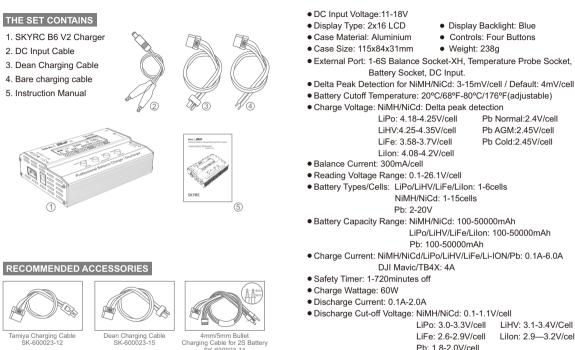
Please connect the battery to the charger main battery lead to battery socket and balance wires to balance socket.





In case of an error the screen will display the cause of error and emit an audible sound

REVERSE POLARITY	Incorrect polarity connected.
CONNECTION BREAK	The battery is interrupted.
CELL NOT MATCH	The battery cell you sent is different from what charger detected.
VOLT ERROR	Battery voltage wrong.
CELL VOLT ERROR	One cell voltage of your battery is too high.
WRONG BATT TYPE	Wrong battery type.
SUPPLY VOLT TOO HIGH	Input voltage higher than 18V
SUPPLY VOLT TOO LOW	Input voltage less than 11V
INTERNAL TEMP. TOO HIGH	The internal temperature of the unit goes too high.
BATT TEMPERATURE TOO HIGH	The external temperature of the battery goes too high.
OVER CHARGE CAPACITY LIMIT	The battery capacity is more than the maximum capacity which the user sets.
OVER TIME LIMIT	The charging time is longer than the maximum charging time which the user sets.



SK-600023-14

LiHV: 3 1-3 4V/Cell

- Lilon: 2.9-3.2V/cell

- Discharge Wattage: 5W
- Balance Cells: 2-6 cells
- Memory: 10 different charge/discharge profiles
- Charge Method: CC/CV for lithium types and lead (Pb) batteries Delta-peak Sensitivity for NiMH/NiCd.

Ec3 Charging Cable

SK-600023-13

SK-600023-15



Temperature Sensor SK-600040-01

B6 V2 B6 V2 SkyRC B6 V2 satisfy all relevant and mandatory EC directives and FCC Part 15 Subpart B.

Test Standards	Title	Result
EN 55014-1:2006 + A1:2009+A2:2011	Electromagnetic compatibility-Requirements for household appliances, electric tools and Similar apparatus – Part 1: Emission	Conform
EN 55014-2:1997+ A1:2001+ A2:2008	Electromagnetic compatibility-Requirements for household appliances, electric tools and Similar apparatus – Part 2: Immunity-Product family standard	Conform

Test Standards	Title	Result
FCC Part 15, Subpart B	Radiated Emission	Conform

This symbol means that you must dispose of electrical from the General household waste when it reaches the end of its useful life. Take your charger to your local waste collection point or recycling centre. This applies to all countries of the European Union, and to other European countries with a separate waste collection system.

FCC Note:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.