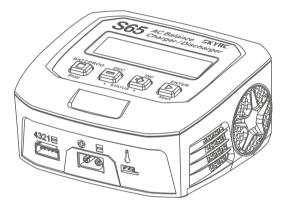
SKYRE S65 AC Balance Charger / Discharger



Instruction Manual

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Version 1.0

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Congratulations on your choice of SKYRC S65 AC Input Professional Balance Charger/Discharger. This unit is simple to use, but the operation of a sophisticated automatic charger such as SKYRC S65 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 S65 is an AC input charger/discharger with compact size (117x105x55mm). Like most SkyRC chargers, it supports TVC (Terminal Voltage Control), Battery Meter. And there are Automatic Charging Current Limit, Capacity Limit, Temperature Threshold and Processing Time Limit for maximum safety.

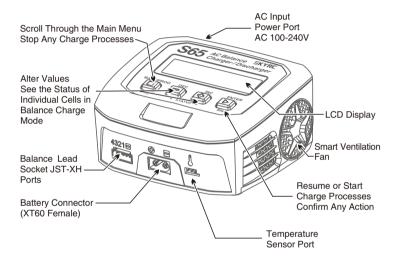
The maximum charging power of S65 is 65W with maximum charging current 6A and discharging current 2A. It is a high-performance micro processor control charge/discharge station with battery management suitable for use with all current battery types, LiPo, LiIon, LiFe, NiCd, NiHM, PB and also new generation LiHV with end voltage 4.35V. For PB battery, S65 adds AGM and cold charge modes. It can charge AGM battery, and Pb battery can be charged in cold charge mode in cold days.

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.

INTRODUCTION

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 S65 features the so-called AUTO function that set the feeding current during the process of charging or discharging. Especially for lithium batteries, it can prevent the overcharging which may lead to an explosion due to the user's fault. It can disconnect the circuit automatically and alarm once detecting any malfunction. All the programs of this product were controlled through two way linkage and communication, to achieve the maximum safety and minimize the trouble. All the settings can be configured by users!

Battery Memory (Data Store/Load)

The charger can store up to 10 different charge/discharge profiles for your convenience. 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.

PB AGM and Cold Charge

For PB battery, S65 adds AGM and cold charge modes. It can charge AGM battery, and Pb battery can be charged in cold charge mode in cold days.

Terminal Voltage Control(TVC)

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

Internal Independent Lithium Battery Balancer

SkyRC S65 employs an individual-cell-voltage balancer. It isn't necessary to connect an external balancer for balance charging.

Balancing Individual Cells Battery Discharging

During the process of discharging, SkyRC S65 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.

Adaptable to Various Type of Lithium Battery

SkyRC S65 is adaptable to various types of lithium batteries, such as LiPo, LiIon, LiFe and the new LiHV batteries.

Fast and Storage Mode of Lithium Battery

Purposes to charge lithium battery varies, 'fast' charge reduce the duration of charging, whereas 'store' state can control the final voltage of your battery, so as to store for a long time and protect useful time of the 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 certain the battery is fully charged.

Delta-peak Sensitivity for NiMH/NiCd

Delta-peak sensitivity for NiMH/NiCd battery: The automatic charge termination program based on the principle of the Delta-peak voltage detection. When the battery's voltage exceeds the threshold, the process will be terminated automatically.

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.

Automatic Charging Current Limit

You can set up the upper limit of the charging current when charging your NiMH or NiCd battery, it is useful for the NiMH battery of low impedance and capacity in the 'AUTO' charging mode.

Battery 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.

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 available by connecting optional temperature probe, which is not included in the package.

Processing Time Limit:

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

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 AC input voltage is 100~240V AC
- 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

Standard Battery Parameters

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.

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 quick-charge 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 gold-plated 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.

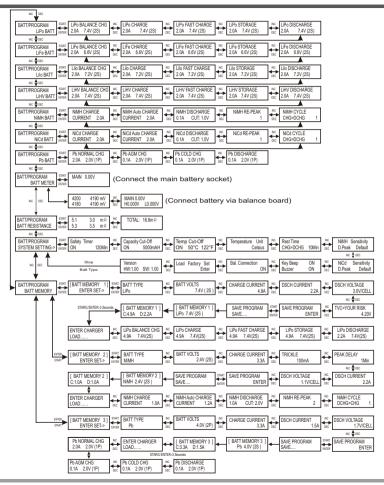
Please get highlighted that lithium battery packs can be wired in parallel and in series. In the parallel connection, the battery s capacity is calculated by multiplying single battery capacity by the number of cells with total voltage stay the same. The voltages imbalance may cause fire or explosion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

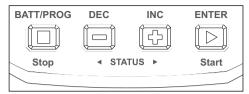
Discharging

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.

PROGRAM FLOW CHART





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.

Here is the detailed procedure to make the charger work. All the screens and operations will take Li-Po BALANCE CHARGE program for example,

1. Connection

1). Connecting to power source

It is an AC charger only.

Please insert the AC power cord to the wall socket (100-240V) directly to power it on.

2). Connecting the battery

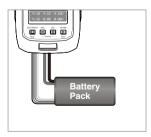
Important!!! Before connecting a battery it is absolutely essential to check one last time that you have set the parameters correctly. If the settings are incorrect, the battery may be damaged, and could even burst into flames or explode. To avoid short circuits between the banana plugs, always connect the charge leads to the charger first, and only then to the battery. Reverse the sequence when disconnecting the pack.

3). Balance Charge

In Balance Charge Mode, the balance wire attached to the battery must be connected to the balance socket in front of the charger;the XT60 male connector is connected to the XT60 female connector in the charger(See the wiring diagram below).

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.



WARNING:

Failure to connect as shown in this diagram will damage this charger. To avoid short circuit between the charge lead always connect the charge cable to the charger first, then connect the battery. Reverse the sequence when disconnecting.

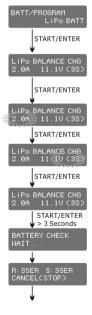
2. Getting started

Locate the flowcharts show the entire programming menu. It is highly recommended to have these flowcharts handy while learning to operate this charger.

There are two main ways in which to set the charger.

- (1) A memory profile is available for setting and storing pertinent information for up to 10 different batteries. Once a battery's information is stored into a memory it will be retained until changed again manually. Recalling a battery's memory number makes the charger instantly ready to go!
- (2) If you do not wish to use the battery memories, this charger can be manually set before each use.

For following step, all are basing on manually set



3. BATT/PROGRAM Select

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

4. Mode Select

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

5. Battery Setting

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

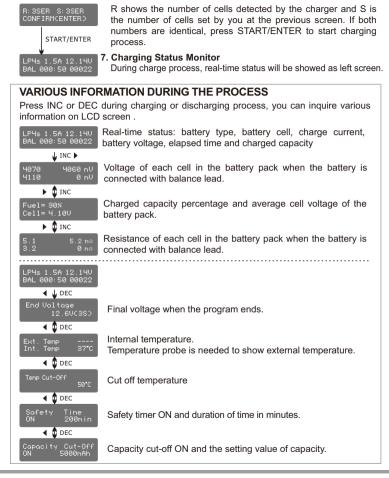
6. Program Start

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

The charger is detecting the battery cell.

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

OPERATING PROGRAM



8. Program Stop

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

9. Program Complete

When the charging process finishes, an audible sound will be heard.

Charging Program

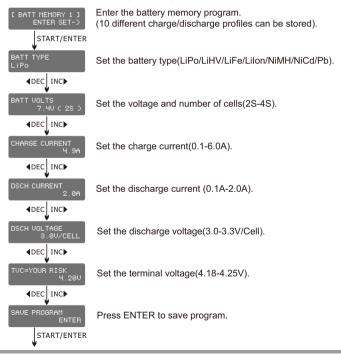
Depends on different battery type, the operation programs are different.

Batt Type	Operation Program	Description
	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.
LiPo	STORAGE	This program is for charging or discharging lithium battery which will not be used for long time.
LiHV Lilon LiFe	FAST CHG	The charging capacity may be a bit smaller than normal charging but the process time will be reduced.
LIFE	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.
AUTO CHG		In this program the charger detects the condition of the battery which is connected to the output and automatically charges the battery. Note: you should set up the upper limit of the charge current to avoid damage by excessive feeding current. Some batteries of low resistance and capacity can lead to higher current.
NiMH	DISCHARGE	This mode is for discharging NiMH/NiCd battery.
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.
	AGM CHG	This mode is for charging AGM battery.
Pb	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.

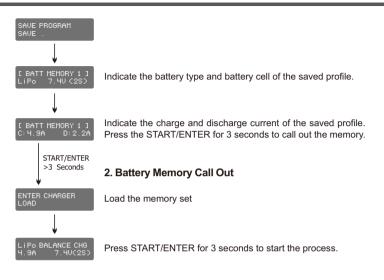
The charger can store up to 10 different charge/discharge profiles for your convenience, and the stored profiles can be recalled quickly without having to go through the setup process.

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.



1. Battery Memory Set



SYSTEM SETTING

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.

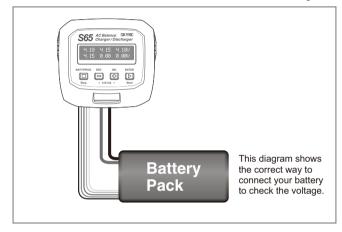
When you are willing to alter the parameter value in the program, press START/ENTER to make it blink then change the value with INC or DEC. The value will be stored by pressing START/ENTER once.

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 (100-50000 mAh)	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.
Rest Time 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 reaches the value you set, the
NiCd Sensitivity D.Peak Default	3-15mV/Cell	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.
Load Factory Set Enter		Press ENTER to load factory default setting.
Version HH:1.00 FH: 1.10		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 balance wire attached to the battery to the balance socket and the XT60 male connector to the XT60 female connector in front of the charger.





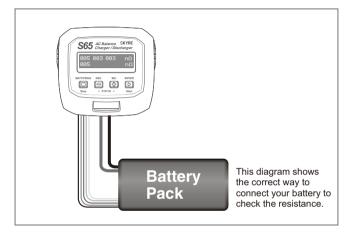
Press the START/ENTER to enter the Lithium Battery Meter program.

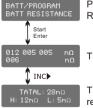
The screen indicate each cell's voltage.

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

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

Please connect the balance wire attached to the battery to the balance socket and the XT60 male connector to the XT60 female connector in front of the charger.





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

The screen indicate each cell's resistance.

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

WARNING AND ERROR MESSAGE

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.
CONNECT ERROR CHECK MAIN PORT	The battery connection is wrong.
BALANCE CONNECT ERROR	The balance connect is wrong.
CELL ERROR LOH VOLTAGE	Voltage of one cell in the battery pack is too low.
CELL ERROR HIGH VOLTAGE	Voltage of one cell in the battery pack is too high.
CELL ERROR VOLTAGE-INVALID	Voltage of one cell in the battery pack is invalid.
CELL NUMBER INCORRECT	The cell number is wrong.
INT.TEMP.TOO HI	The internal temperature of the unit goes too high.
EXT.TEMP.TOO HI	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.
BATTERY WAS FULL	The battery voltage is higher than the maximum voltage which the user sets when charging in balance mode.
CONTROL FAIL	Voltage of the battery pack is lower than 5V. This charger

THE SET CONTAINS

- 1. SKYRC S65 Charger
- 2. Power Cord



1



2

SPECIFICATION

- AC Input Voltage : 100-240V
- Display Type: 2x16 LCD
- Case Material: Plastic
- Case Size: 117x105x55mm
- Display Backlight: Blue
- Controls: Four Buttons
- Weight: 315g
- External Port: 2-4S Balance Socket-XH, Temperature Probe Socket, XT60 Female Connector.
- Delta Peak Detection for NiMH/NiCd: 3-15mV/cell / Default: 4mV/cell
- Battery Cutoff Temperature: 20°C/68°F-80°C/176°F(adjustable)
- Charge Voltage: NiMH/NiCd: Delta peak detection

LiPo: 4.18-4.25V/cell	Pb Normal:2.4V/cell
LiHV:4.25-4.35V/cell	Pb AGM:2.45V/cell
LiFe: 3.58-3.7V/cell	Pb Cold:2.45V/cell
Lilon: 4.08-4.2V/cell	

- Balance Current: 200mA/cell
- Reading Voltage Range: 0.1-26.1V/cell
- Battery Types/Cells: LiPo/LiHV/LiFe/Lilon: 2-4cells

NiMH/NiCd: 6-8cells

Pb: 3-6cells

Battery Capacity Range: NiMH/NiCd: 100-50000mAh

LiPo/LiHV/LiFe/Lilon: 100-50000mAh Pb: 100-50000mAh

- Charge Current: 0.1A-6.0A
- Safety Timer: 1-120minutes off
- Charge Wattage: 65W
- Discharge Current: 0.1A-2.0A
- Discharge Cut-off Voltage: NiMH/NiCd: 0.1-1.1V/cell

LiPo: 3.0-3.3V/cell LiHV: 3.1-3.4V/Cell LiFe: 2.6-2.9V/cell Lilon: 2.9—3.2V/cell Pb: 1.8-2.0V/cell

- Discharge Wattage: 10W
- Balance Cells: 2-4 cells
- Memory: 10 different charge/discharge profiles
- Charge Method: CC/CV for lithium types and lead (Pb) batteries Delta-peak Sensitivity for NiMH/NiCd.

SkyRC S65 satisfy all relevant and mandatory EC directives and FCC Part 15 Subpart B: ANSI C63.4:2014

SAFETY			
Standard	Title	Result	
EN 60335-1:2012+A11:2014	Household and similar electrical appliances - Safety - Part 1: General requirements	PASS	
EN 60335-2-29:2004+A2:2010	Part 2-29: Particular requirements for battery chargers	PASS	

EMISSION			
Standard	Title	Result	
EN 55014-1: 2006+A2:2011	Conducted (Main Port)	PASS	
LIN 55014-1. 2000+A2.2011	Disturbance Power	PASS	
EN 61000-3-2: 2014	Harmonic current emissions	PASS	
EN 61000-3-3: 2013	Voltage fluctuations & flicker	PASS	

	IMMUNITY [EN 55014-2: 2015]	
Standard	Title	Result
IEC 61000-4-2: 2008	ESD	PASS
IEC 61000-4-3: 2006+A1:2007+A2:2010	RS	PASS
IEC 61000-4-4: 2012	EFT	PASS
IEC 61000-4-5: 2014	Surge	PASS
IEC 61000-4-6: 2008	CS	PASS
IEC 61000-4-11: 2004	Voltage dips & voltage variations	PASS

EMISSION				
Standard	Title	Result	Remarks	
FCC 47 CFR Part 15 Subpart B	Conducted (Mains Port)	PASS	Meet Class B limit	
ANSI C63.4:2014	Radiated	PASS	Meet Class B limit	

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.

Commonly used terms

Final charge voltage: the voltage at which the battery's charge limit (capacity limit) is reached. The charge process switches from a high current to a low maintenance rate (trickle charge) at this point. From this point on further high current charging would cause overheating and eventual terminal damage to the pack.

Final discharge voltage: the voltage at which the battery's discharge limit is reached. The chemical composition of the batteries determines the level of this voltage. Below this voltage the battery enters the deep discharge zone. Individual cells within the pack may become reverse polarized in this condition, and this can cause permanent damage.

A, **mA**: unit of measurement relating to charge or discharge current.1000 mA = 1 A (A=Ampere,mA=Milliampere)

Ah, mAh: unit of measurement for the capacity of a battery (Amperes x time unit; h = hour). If a pack is charged for one hour at a current of 2 A, it has been fed 2 Ah of energy. It receives the same quantity of charge (2 Ah) if it is charged for 4 hours at 0.5 A, or 15 minutes (=1/4 h) at 8 A.

'C'-rating: Capacity is also referred to as the 'C' rating. Some battery suppliers recommend charge and discharge currents based on the battery 'C' rating. A battery's '1C' current is the same number as the battery's rated capacity number, but noted in mA or amps. A 600mAh battery has a 1C current value of 600mA, and a 3C current value of (3 x 600mA) 1800mA or 1.8A. The 1C current value for a 3200mAh battery would be 3200mA (3.2A).

Nominal voltage(V): The nominal voltage of the battery pack can be determined as follows;

-.NiCd or NiMH: multiply the total number of cells in the pack by 1.2. A 8-cell pack will have a nominal voltage of 9.6 volts (8x1.2).

-.LiPo: multiply the total number of cells in the pack by 3.7. A 3-cell LiPo wired in series will have a nominal voltage of 11.1 volts (3x3.7).

-.Lilo: multiply the total number of cells in the pack by 3.6. A 2-cell Lilo wired in series will have a nominal voltage of 7.2 volts (2x3.6).

-.LiFe: multiply the total number of cells in the pack by 3.3. A 4-cell Lilo wired in series will have a nominal voltage of 13.2 volts (4x3.3).

If the nominal voltage of the battery is not printed on the battery's label, consult your battery manufacturer or supplier. Do not guess the rated voltage of battery.

Liability exclusion

This charger is designed and approved exclusively for use with the types of battery stated in this Instruction Manual. SkyRC accepts no liability of any kind if the charger is used for any purpose other than that stated.

We are unable to ensure that you follow the instructions supplied with the charger, and we have no control over the methods you employ for using, operating and maintaining the device. For this reason we are obliged to deny all liability for loss, damage or costs which are incurred due to the incompetent or incorrect use and operation of our products, or which are connected with such operation in any way.Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of those SkyRC products which were immediately and directly involved in the event in which the damage occurred.

Warranty and service

THIS WARRANTY IS ONLY VALID IN THE COUNTRY OF PURCHASE AND THROUGH FORMAL DISTRIBUTOR.

We guarantee this product to be free of manufacturing and assembly defects for a period of one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes.

For any repair or replace service, please contact your dealer in the first instance, who is responsible for processing guarantee claims. This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification or as a result of failure to observe the procedures outlined in this manual.

SKYRC

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