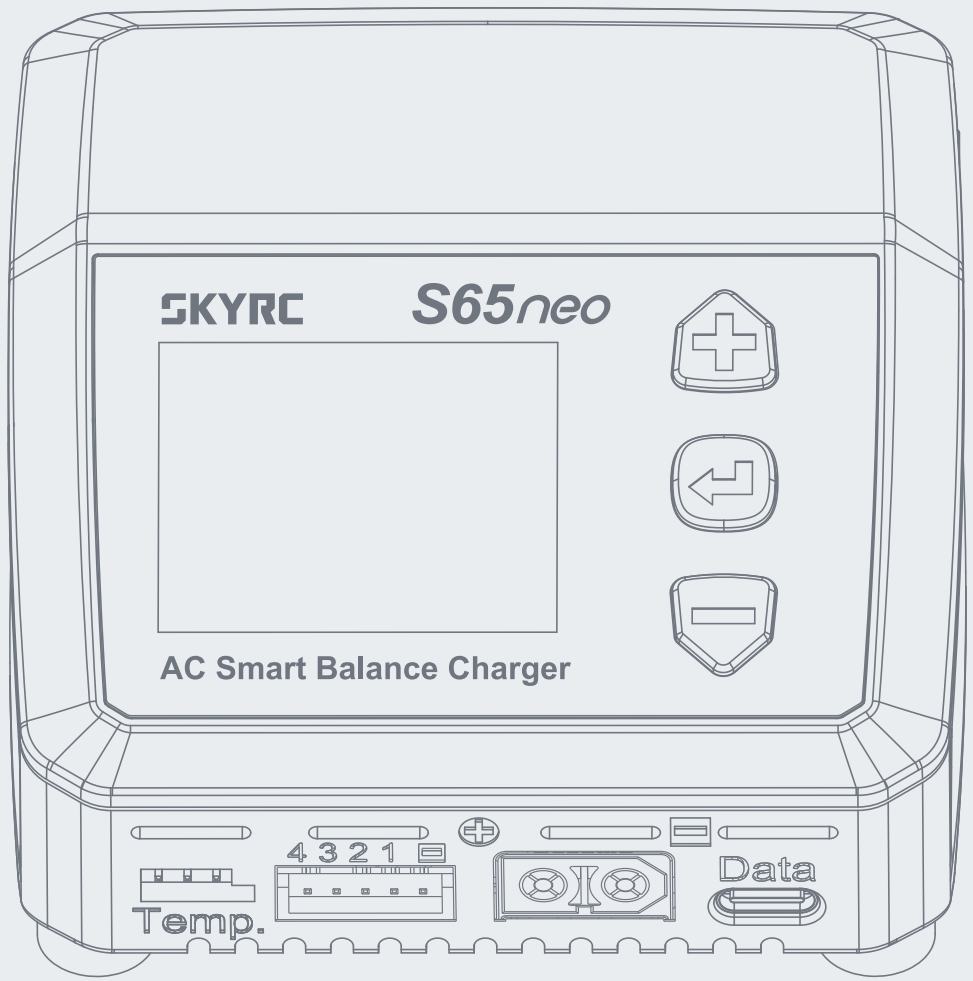
Instruction Manual

v. 33

SKYRC



S65neo

AC Smart Balance Charger

Introduction

Thank you for your purchase of SkyRC S65neo AC Smart Balance Charger.
S65neo packs powerful charging capabilities into a compact all-in-one AC design. Supporting a wide range of battery types, it delivers up to 65W charging power and 10A charging current while offering advanced features such as Internal Resistance Measurement, Battery Meter, and DC Power Supply mode.
Combined with comprehensive safety protections, intelligent thermal management, and the vibrant ColorX interface, S65neo is designed to provide a reliable and enjoyable charging experience for hobbyists and professionals alike.
Please read the Operating Instructions and Safety Notes carefully before use.

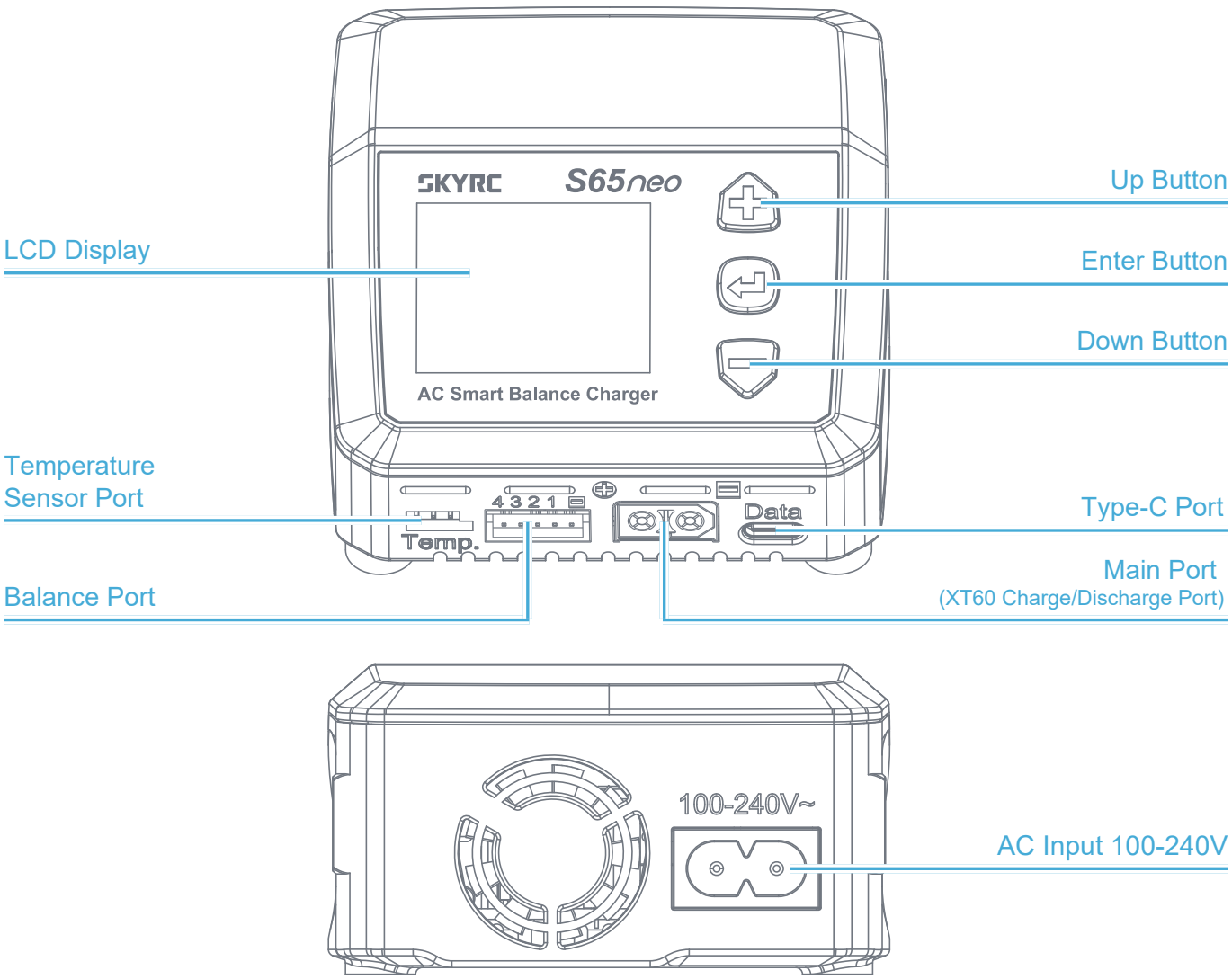
⚠ Warning

S65neo is not intended for use by individuals with reduced physical, sensory, or cognitive abilities, or by those lacking experience and knowledge with batteries, unless under the supervision or guidance of a responsible person.
Failure to use this product properly and follow the warnings below may result in malfunction, electrical issues, overheating, fire, and could lead to injury or property damage.

- ⚠ Never leave charging batteries unattended during use.
- ⚠ Never charge batteries overnight.
- ⚠ Never attempt to charge dead, damaged, or wet battery packs.
- ⚠ Never attempt to charge a battery pack containing different types of batteries.
- ⚠ Never charge batteries in extremely hot or cold places or place in direct sunlight.
- ⚠ Never charge a battery if the cable has been pinched or shorted.
- ⚠ Never connect the charger if the power cord has been pinched or shorted.
- ⚠ Never attempt to dismantle the charger or use a damaged charger.
- ⚠ Always use the charger with the correct charging and discharging program.
- ⚠ Always use only rechargeable batteries designed for use with this type of charger.
- ⚠ Never use the charger on car seats, carpets, or similar surfaces.
- ⚠ Always operate the charger away from flammable and explosive materials.

SkyRC Technology Co., Ltd. accepts no liability in such cases.

Getting to Know S65neo



+/Up Button: Increase the value or scroll through the menus/options.
↵/Enter Button: Confirm or terminate the current program, enter Charge Settings, and perform other actions.
-/Down Button: Decrease the value or scroll through the menus/options.

Specifications

Model		CH005
Input Voltage	AC	100V～240V(50/60HZ)
Input Voltage Range		90V～264V(47/63HZ)
Charge Power		65W(±10%)

Specifications

Discharge Power	Main Port	10W(±15%)
	Balance Port	500mA/MAX/CELL
Charge Current	NiMH/NiCd	0.1A～1A(±0.3A) 1.1A～10A(±10%)
	LiHV/LiPo/Li-ion/LiFe	
	Pb	0.8A～1A(±0.3A); 1.1A～10A(±10%)
Discharge Current	NiMH/NiCd	0.1A～1A(±0.3A) 1A～2A(±10%)
	LiHV/LiPo/Li-ion/LiFe	
	Pb	
DC Power	Voltage	6V-17V (±5%)
	Current	0.5A~9A(±10%)
	Power	65W(±10%)
Balance Current	LiHV/LiPo/Li-ion/LiFe	MAX 500mA
Trickle Charge Current	NiMH/NiCd	100mA±150mA
Battery Types	NiMH/NiCd	6～8CELL
	LiHV/LiPo/Li-ion/LiFe	2～4CELL
	Pb	3/6P(6/12V)
Working Modes	NiMH/NiCd	Charge/Re-Peak/CYCLE_C_D/CYCLE_D_C/Discharge
	LiHV/LiPo/Li-ion/LiFe	Balance CHG/Charge/Storage/Discharge
	Pb	Normal/AGM Charge/Cold Charge/Discharge
Language		简体中文/English/日本語/Deutsch/Français/Español Default: English
Working Environment	Temperature	0°C～40°C
	Humidity	5%～75%RH, non-condensing.
Storage Environment	Temperature	-10°C～70°C
	Humidity	5%～75%RH, non-condensing.
Size		84X84X45.3mm
Weight		200g

Standard Battery Parameters

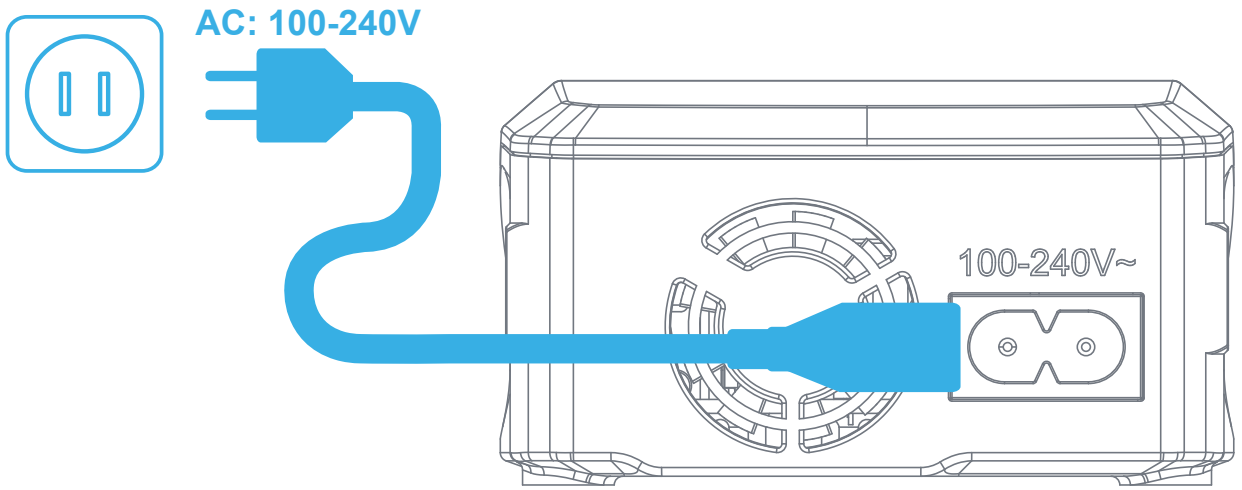
	LiPo	Li-ion	LiFe	LiHV	NiMH	NiCd	Pb
Nominal Voltage	3.7V/cell	3.6V/cell	3.3V/cell	3.8V/cell	1.2V/cell	1.2V/cell	2.0V/cell
Charge Voltage	4.15V-4.25V/cell	4.05V-4.25V/cell	3.58V-3.70V/cell	4.25V-4.50V/cell	N/A	N/A	2.30V-2.75V/cell
Storage Voltage	3.75V-3.90V/cell	3.70V-3.85V/cell	3.25V-3.40V/cell	3.85V-3.95V/cell	N/A	N/A	N/A
Allowable fast charge current	≦ 1C	≦ 1C	≦ 1C	≦ 1C	≦ 1C	≦ 1C	≦ 0.4C
Discharge Voltage	3.0-3.4V/cell	2.60-3.70V/cell	2.60-3.00V/cell	3.10-3.50V/cell	0.60-1.00V/cell	0.60-1.00V/cell	1.80V-2.00V/cell

Select the correct operating procedure based on the battery's specifications.
Incorrect settings could cause the battery to overheat, catch fire, or even explode.

Power and Battery Connection

1. Connecting to a Power Source

S65neo supports AC input. The input voltages is: AC: 100-240V



2. Connecting the battery

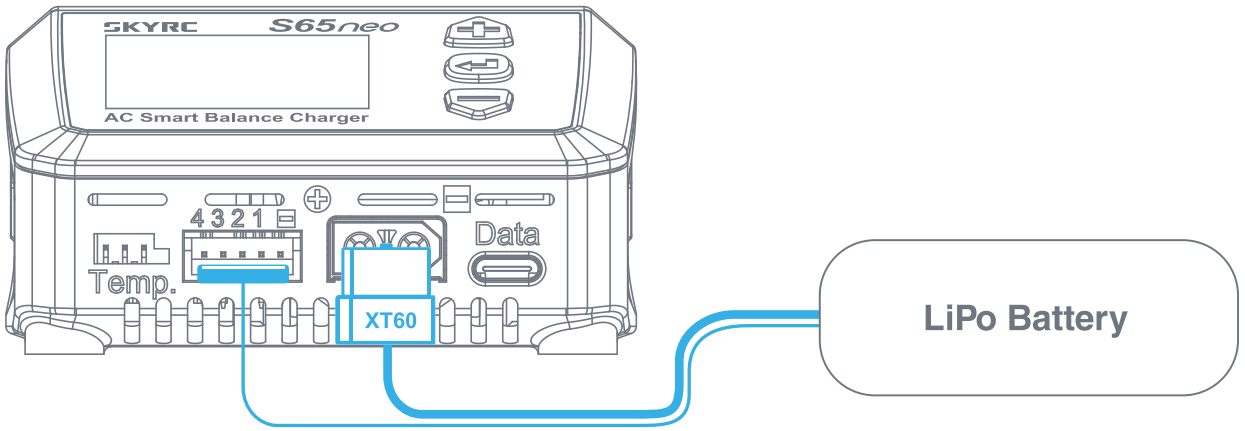
WARNING!

TO AVOID SHORT CIRCUITS, ALWAYS POWER THE CHARGER FIRST THROUGH THE AC PORT AT THE BACK, THEN CONNECT THE BATTERY TO THE CHARGE PORT AT THE FRONT. WHEN DISCONNECTING, REVERSE THE SEQUENCE.

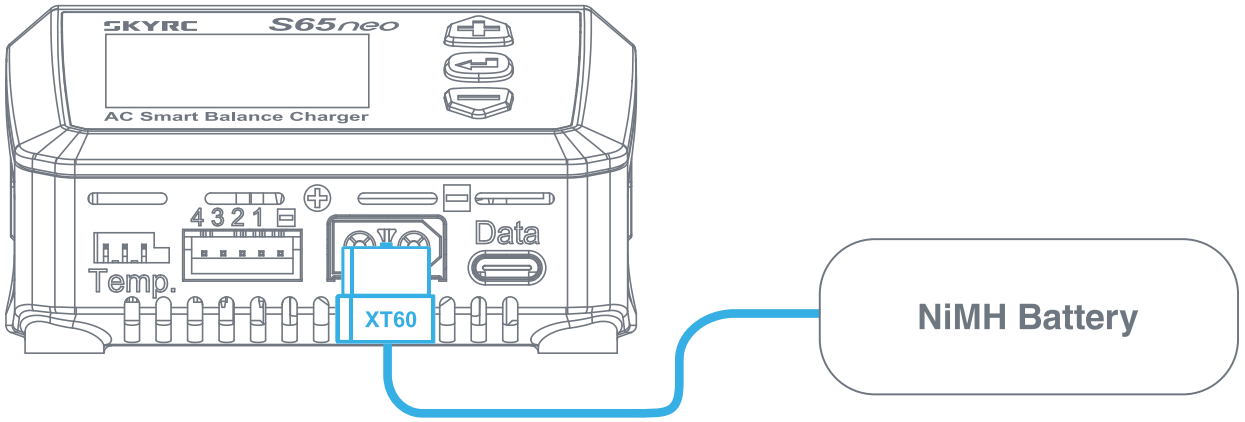
Lithium Battery Connection with Balance Adapter:

• For safety reasons, it is highly recommended to charge Lithium batteries (LiPo, Li-ion, LiFe, and LiHV) using Balance CHG mode, unless the battery lacks a balance wire.

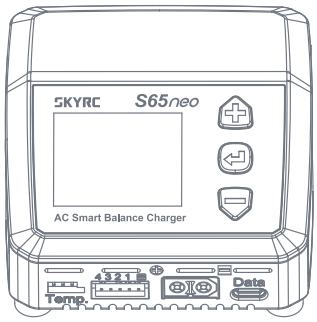
• Ensure that the balance wire is connected to the charger, with the black wire aligned with the negative marking. Check the polarity to ensure the correct connection!



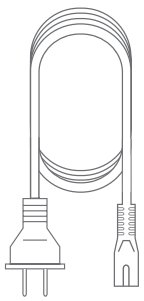
NiMH/NiCd or Pb Battery Connection:



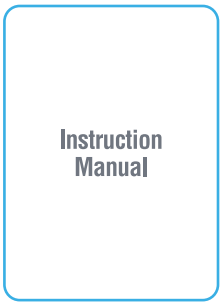
In The Box



SkyRC S65neo AC Smart Balance Charger*1



AC Power Cord*1



Instruction Manual*1

Warranty And Service

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 that 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

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.
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.

Note:

1. The warranty service is valid in China only.
2. If you need warranty service overseas, please contact your dealer in the first instance, who is responsible for processing guarantee claims overseas. Due to high shipping costs, and complicated custom clearance procedures to send back to China, please understand that SkyRC can't provide warranty service to overseas end users directly.
3. If you have any questions which are not mentioned in the manual, please feel free to send an email to info@skyrc.com

SKYRC

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please refer to our website for the latest version!

https://www.skyrc.com

If you have any questions about this document, please contact SkyRC by sending a message to **support@skyrc.com**

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