



SKYRC Q200 neo AC Multi Function Smart Charger User Guide

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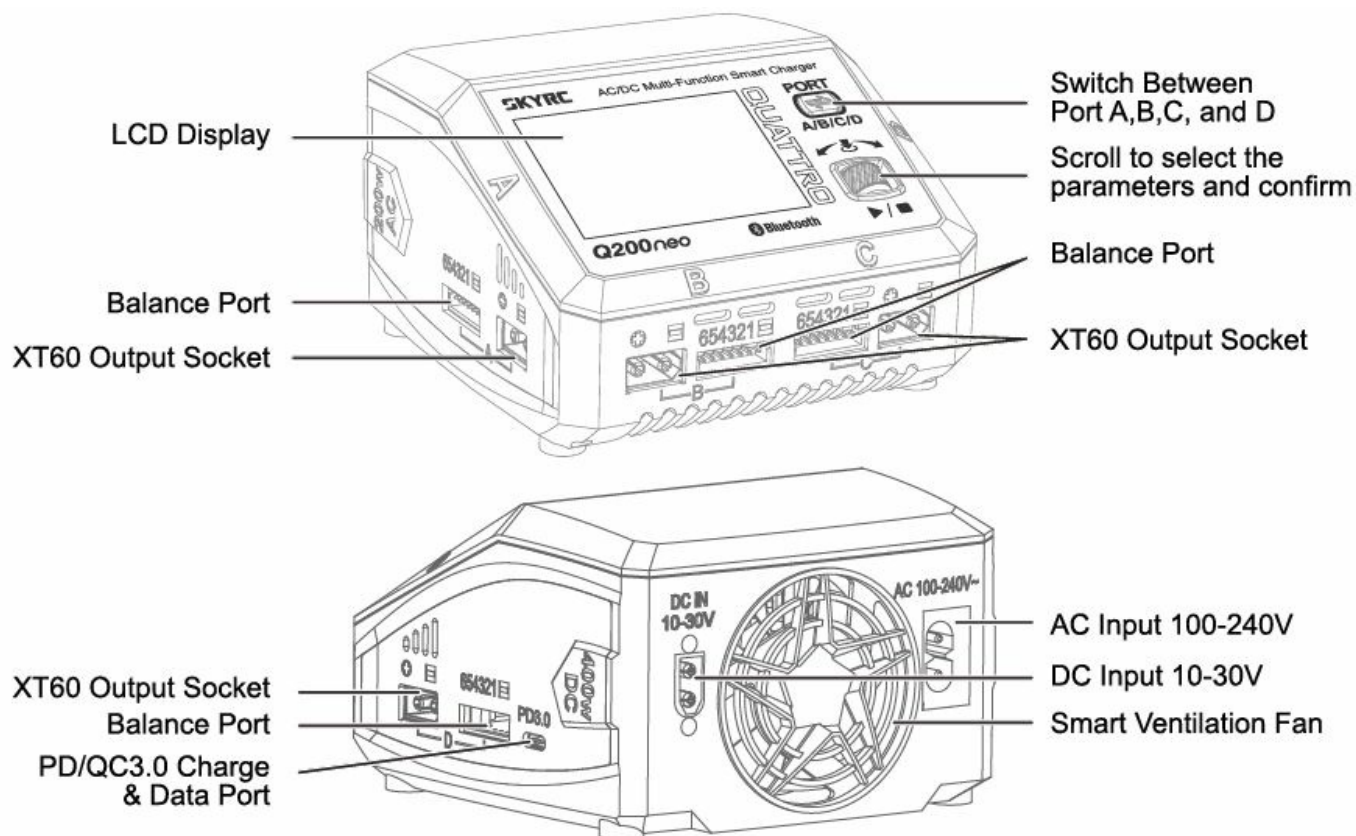


SKYRC Q200 neo AC Multi Function Smart Charger



Introductions

- Introducing the SkyRC Q200neo AC/DC Multi-Function Smart Charger, an enhanced version of the Q200.
- With four independent ports and compatibility with various RC batteries, it adapts to different chemistries.
- It can act as a quad-output digital power, offering adjustable voltage (1.0V-30.0V), and current (0.1A-10.0A) per output.
- The 20W USB-C PD 3.0 charging port allows rapid charging of smartphones, tablets, and the 2020 MacBook Air. Connect effortlessly via Type-C or Bluetooth, and control it with Charger Master on PC, Mac, or smartphone.
- Before using it for the first time, it is crucial to carefully read through the instructions, warnings, and safety tips provided. Improperly charging a battery or misusing the charger can lead to potentially hazardous situations such as fire or explosion.



Specification

Item	Option	Specification
Model		Q200neo
Input Voltage	AC	100-240V (50/60Hz)
	DC	10.0-30.0V
Input Current	DC	30.0A
Charge Power	AC	Total 200W One Port: 100W Max Two Ports: 100W•2 Three Ports: 66W•3 Four Ports: 50W•4 PD3.0: 20W Max Power distribution priority: Type-C>A>B>C>D
	DC	Total 400W One Port: 100W Max Two Ports: 100W•2 Three Ports: 100W•3 Four Ports: 100W•4 PD3.0: 20W Max Power distribution priority: Type-C>A>B>C>D
Discharge Power	Main Port	SW
	Main Port+Balance Port	25W (LiPo/6S)
Charge Current	LiPo/LiFe/LiIon/LiHV/ NiMH/NiCd/Pb	0.1-10.0A
Discharge Current	LiPo/LiFe/LiIon/LiHV/ NiMH/NiCd/Pb	0.1-2.0A
Balance Current	LiPo/LiFe/LiIon/LiHV	800mA Max
Trickle Charge Current	NiMH/NiCd	50-300mA & OFF
Battery Types	LiPo/LiFe/LiIon/LiHV	1-6S
	NiMH/NiCd	2-15S
	Pb	3S/6S/12S

Item	Option	Specification
Working Modes	LiPo/LiFe/Lilon/LiHV	Balance CHG, Charge, Discharge, Storage
	NiMH/NiCd	Normal, Discharge, Re-Peak, CYCLE_D_C, CYCLE_C_D
	Pb	Charge, AGM Charge, Cold Charge, Discharge
DC Power Supply	Voltage	1.0-30.0V
	Current	0.1-10.0A
	Power	Max. 100W single port
USB Type-C Output	QC3.0	5v $\overline{\text{---}}$ 3A, 9V $\overline{\text{---}}$ 2A, 12v $\overline{\text{---}}$ 1.5A 18W
	PD	5v $\overline{\text{---}}$ 3A, 9V $\overline{\text{---}}$ 2.2A , 12v $\overline{\text{---}}$ 1.67A20W
Size	Length•Width•Height	123•119•1amm
Weight	Net Weight	680g
Working Environment	Working Temperature	0°C-40°C
	Working Humidity	10%-80%
Storage Environment	Storage Temperature	-10°C-60°C
	Storage Humidity	20%-70%

Standard Battery Parameters

	LiPo	Lilon	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
Max. charge voltage	4.2V/cell	4.1V/cell	3.65V/cell	4.35V/cell	1.5V/cell	1.5V/cell	2.4V/cell
Storage voltage	3.8V/cell	3.7V/cell	3.3V/cell	3.85V/cell	N/A	N/A	N/A
Allowable fast charge current	1C	1C	4C	1C	1C-2C	1C-2C	0.4C
Min. discharge voltage	3.0-3.4V/cell	2.9-3.3V/cell	2.6-3.0V/cell	3.1-3.5V/cell	0.6-1.0V/cell	0.6-1.0V/cell	1.8-2.0V/cell

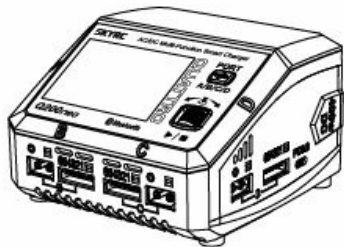
Warning

Q200neo is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the charger by a person responsible for their safety.

Failure to exercise caution while using this product and comply with the following warnings could result in a product malfunction, electrical issues, excessive heat, FIRE, and ultimately injury and 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.
- Never attach your charger to both an AC and a DC power source at the same time.
- 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.

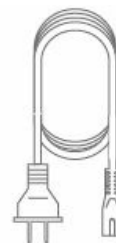
Package



SkyRC Q200neo charger*1



User Manual*1



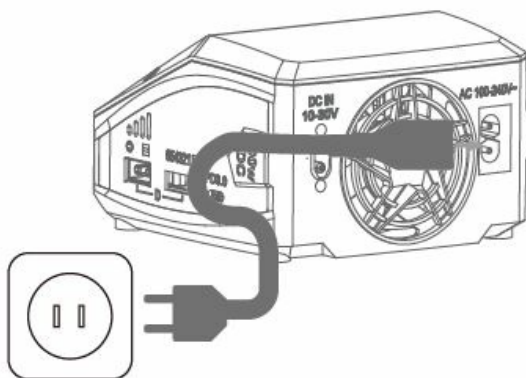
AC power Cord*1

Power and Battery Connection

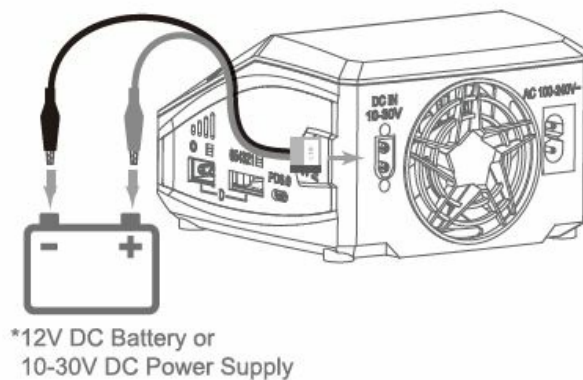
Connect to the power source

- There are two options of inputs for SkyRC Q200neo: DC 10-30V and AC 100-240V.

AC 100-240V



12V DC Battery



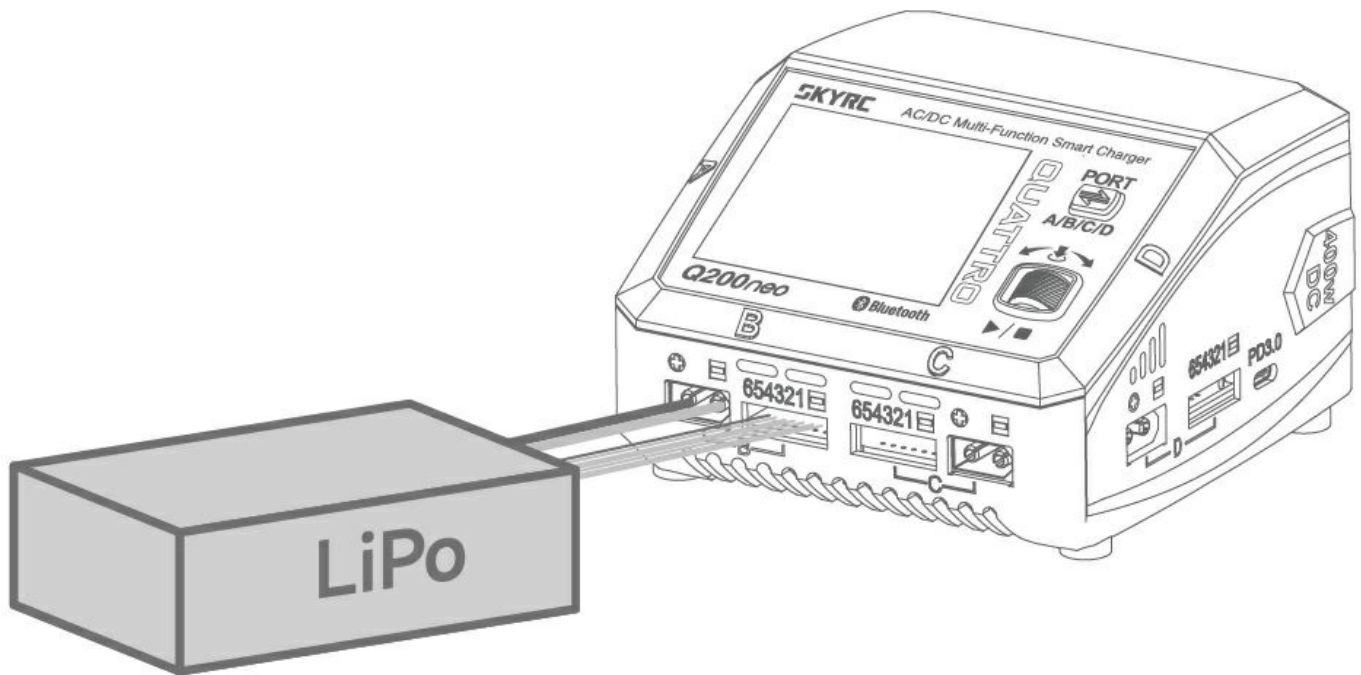
Connect the battery

WARNING

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

LiPo Battery Connection with Balance Adapter

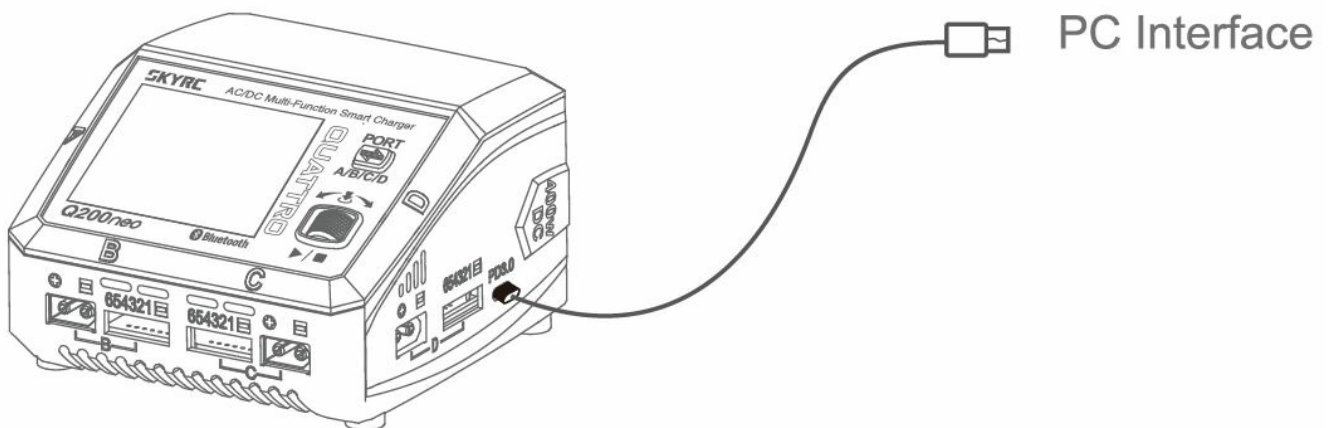
- For safety reasons, it is highly recommended to charge Lithium batteries (LiPo, Lilon, LiFe and LiHV) using Balance CHG mode unless the battery comes without a balance connector.
- The balance wire attached to the battery must be connected to the charger with the black wire aligned with the negative marking. Ensure correct polarity!



Charger Master

The Q200neo offers the convenience of charging and discharging directly from your computer, whether you're using Windows or MacOS. It provides a visual display of various parameters, such as charge time, capacity, charge current, and voltage, presented in a curve format.

1. Download the latest Charger Master onto your desktop. Unzip and open it;
2. Choose Data for USB work mode in System Setting>USB;
3. Connect Q200neo to your computer via a USB type-C cable;



4. On the top left panel, choose the expected work mode to initiate the program.

SkyCharger App Control

With the built-in Bluetooth 5.0, Users can easily control the 200neo charger through the SkyCharger app. The firmware can be upgraded over the OTA(On the Air). Scan the QR code below to download the SkyCharger app!

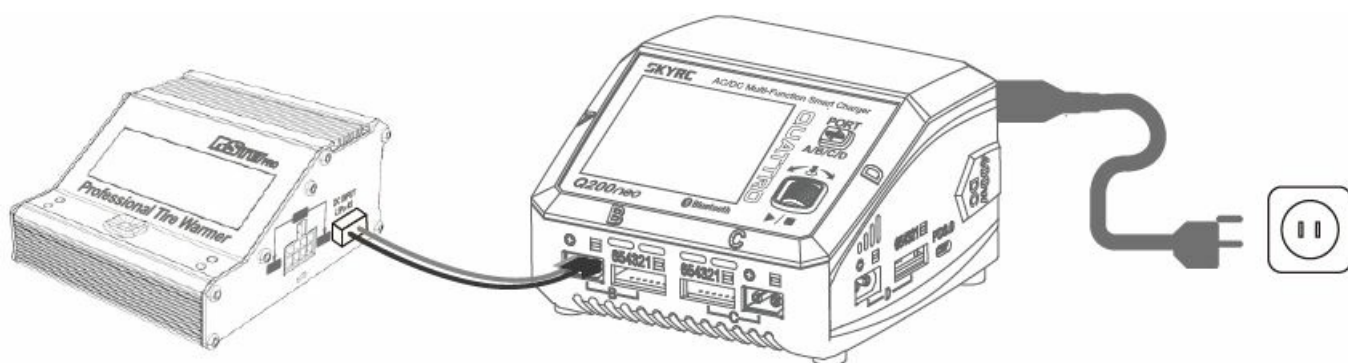


SkyCharger



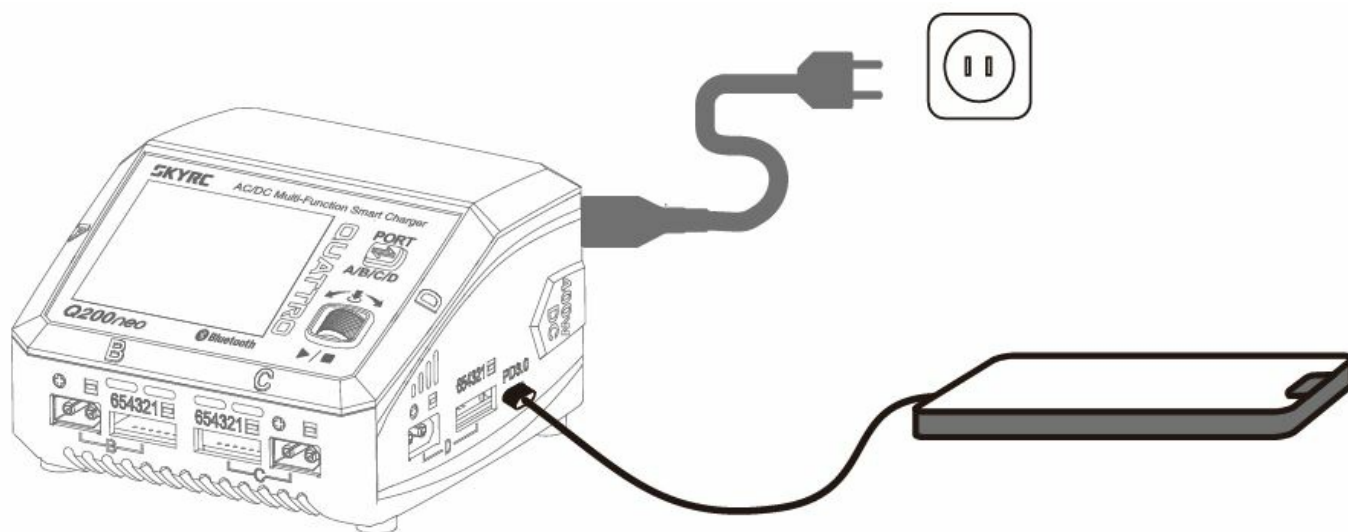
DC Power

- On the main menu, hold the Scroll Wheel for two seconds to enter Charger Setting>DC Power.
- Select the options of DC Power: adjust the output voltage and current.
- Select Start to activate the DC Power working mode.



USB Type-C PD/QC3.0 Output

- With the 20W USB-C PD 3.0 charging port, our RC players can enjoy rapid charging speeds like never before.
- Whether you're charging your smartphones, tablets, or 2020 MacBook Airs, this powerful port ensures that you can fuel up your devices in a fraction of the time.



EU Compliance Statement

- SkyRC Technology Co., Ltd. hereby declares that this device complies with the essential requirements and

other relevant provisions of Directive 2014/53/EU.

- A copy of the EU Declaration of Conformity is available online at <https://www.skyrc.com/downloads>.

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 that 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 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

The warranty service is valid in China only.

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.

If you have any questions that are not mentioned in the manual, please feel free to send an email to info@skyrc.com.

CONTACT

- Manufactured by SKYRC TECHNOLOGY CO., LTD.
- The manual is subject to change without notice; please refer to our website for the latest version!
- www.skyrc.com
- 2023.07 7504-1758-01





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Q200 neo AC Multi Function Smart Charger, Q200 neo AC, Multi Function Smart Charger, Function Smart Charger, Smart Charger, Charger

References

- [User Manual](#)