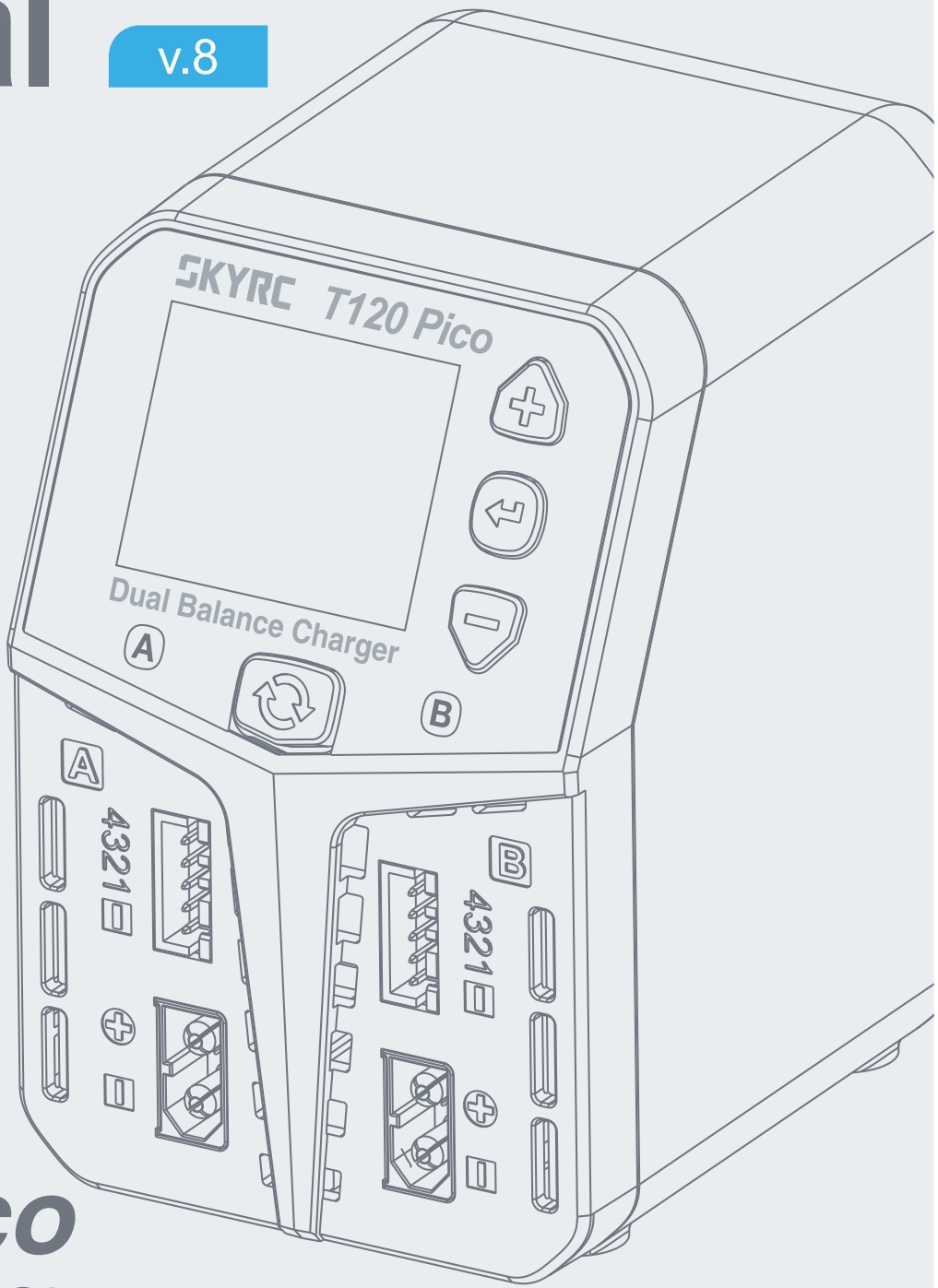
Instruction Manual

v.8



T120 Pico

Dual Balance Charger

Introduction

Thank you for choosing SkyRC T120 Pico Dual Balance Charger!
SkyRC T120 Pico is a dual-channel charger with two independent circuits which can charge batteries of varying chemistries (LiPo/LiFe/Li-ion/LiHV/NiMH/NiCd/Pb) simultaneously. Its sleek design allows easy front-loading plug-in convenience of balancing and XT60 ports. It is not only compact in size but also powerful in output with maximum 120W charging power and 6A charging current which makes charging more sufficient. With the AGM and cold charge modes, the user is free to charge their Pb batteries in cold days.
The newly upgraded display and buttons make operation more convenient and simple.
Please BE SURE to read these INSTRUCTIONS, WARNING and SAFETY NOTES before you use the charger for the first time.

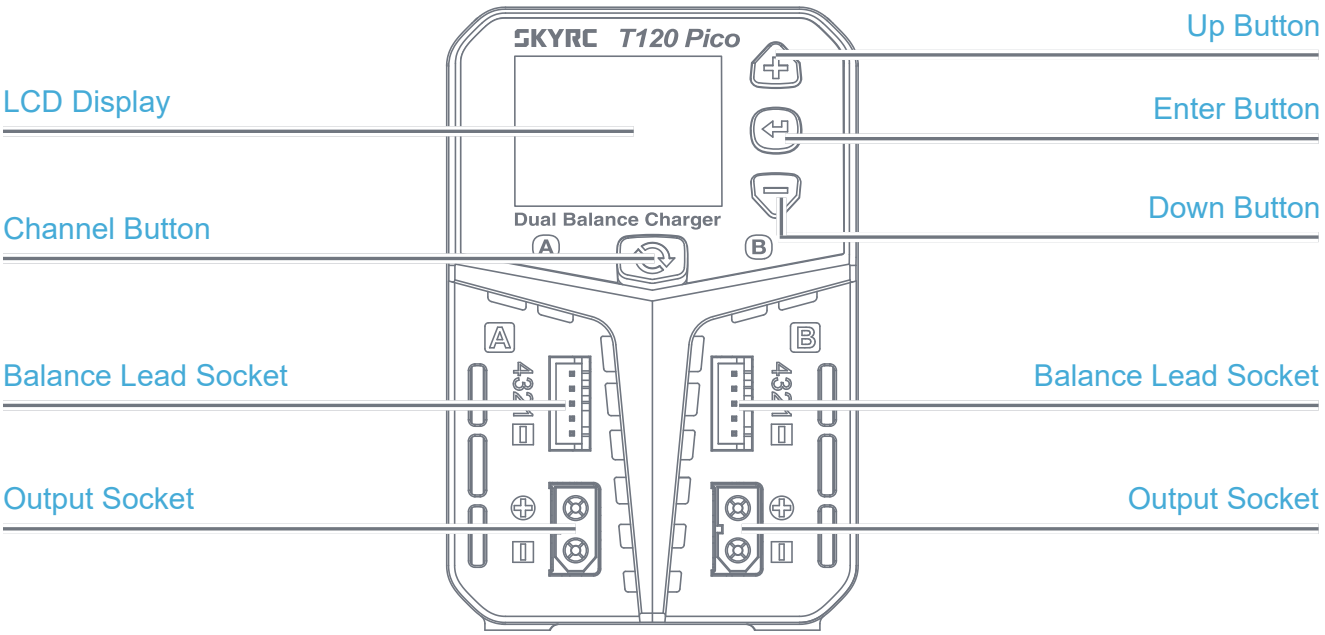
⚠ Warning

T120 Pico 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.

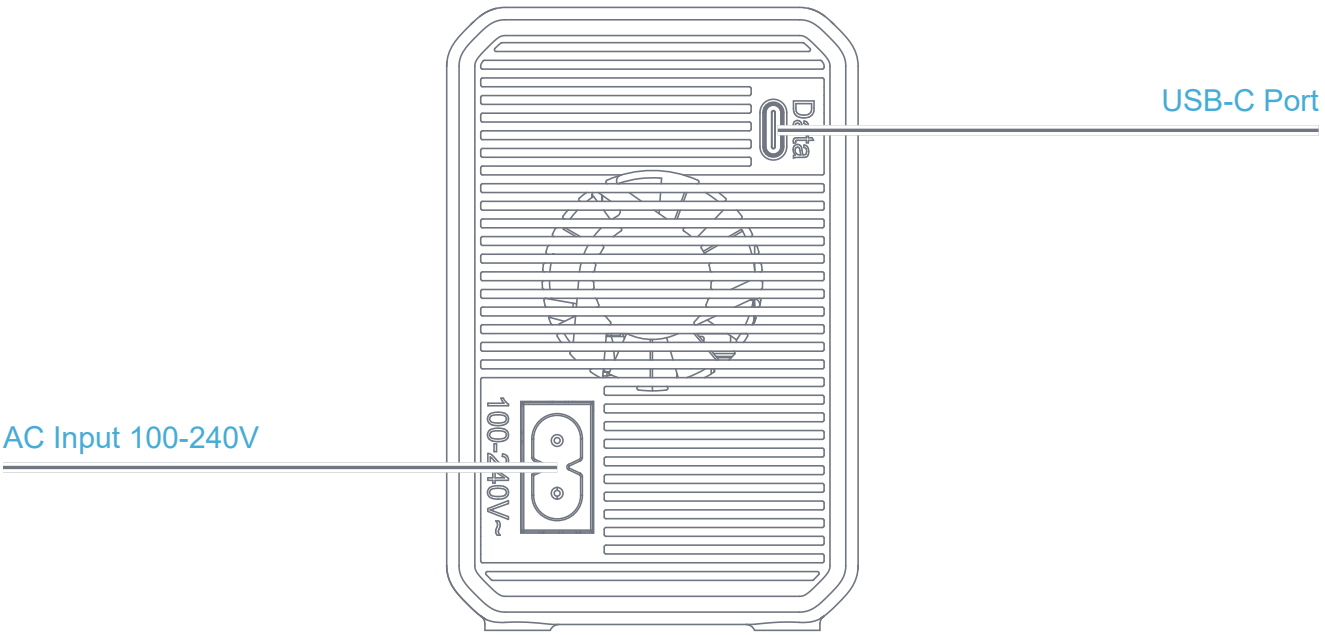
Getting To Know T120 Pico



+ /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.
⟳ /Channel Button: Switch from Channel A to B or vice versa.

Explanation Of Buttons

+ : Go through the menus and increase the parameter value.
↵ : Enter the settings menu or press and hold for 5 seconds to access the system settings, and confirm the choice.
- : Go through the menus and decrease the parameter value.
⟳ : Channel Button: Switch between Channel A, Channel B, and Home



Specifications

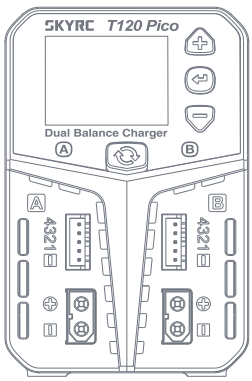
Item	Option	Specification
Model		CH003
Input Voltage	AC	100V~240V (50/60HZ)
Battery Type	NiMH/NiCd	6~8CELL
	Pb	3CELL/6CELL
	LiHV/LiPo/Li-ion/LiFe	2~4CELL
Charge Current	LiHV/LiPo/Li-ion/LiFe	0.1A-1A (±0.15A) 1.1A-6A (±10%)
	NiMH/NiCd	
	Pb	0.8A-1A (±0.15A) 1.1A-6A (±10%)
Working Mode	LiHV/LiPo/Li-ion/LiFe	Balance Charge/ Charge/ Storage
	NiMH/NiCd	Charge/Re-Peak
	Pb	Normal/AGM Charge/Cold Charge
DC Power	Voltage	6~17V (±0.2V)
	Current	0.5A~1A (±0.15A) 1.1~6A (±10%)
Balance Current	LiPo/Li-ion/LiFe/LiHV	Max500mA
Charging Power		60W×2 (±10%)
Storage Discharge Current	LiHV/LiPo/Li-ion/LiFe	Max 500mA (Discharge via balance port only)
Language		English/简体中文/Deutsch/Español/Français/日本語 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
Dimension	L*W*H	90*70*106mm
Weight		355g

Standard Battery Parameters

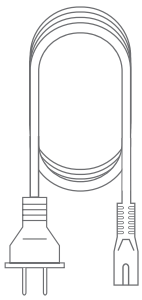
	LiPo	Li-ion	LiFe	LiHV	NiMH	NiCd	Pb
Nominal Voltage	3.7V/cell	3.6V/cell	3.3V/cell	3.8V/cell	1.2V/cell	1.2V/cell	2.0V/cell
Charge Voltage	4.15V~ 4.25V/cell	4.05V~ 4.25V/cell	3.58V~ 3.70V/cell	4.25V~ 4.50V/cell	N/A	N/A	2.30V~ 2.75V/cell
Storage Voltage	3.75V~ 3.90V/cell	3.70V~ 3.85V/cell	3.25V~ 3.40V/cell	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	3.00~ 3.40V/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 parameters.
Incorrect settings could lead to battery damage, fire, or even explosion.

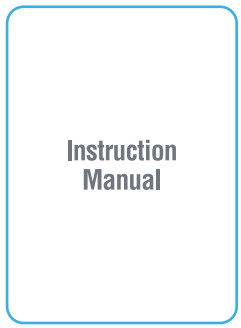
The Set Contains



SkyRC T120 Pico Charger*1



Power Cord*1



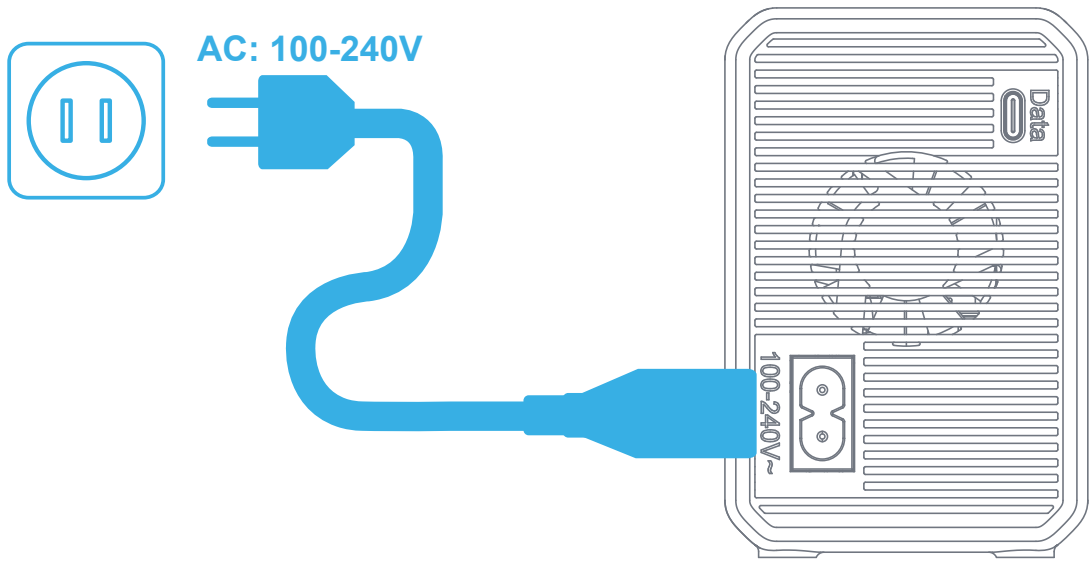
User Manual*1

Battery & Power Supply Connertions

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. Connecting to power source

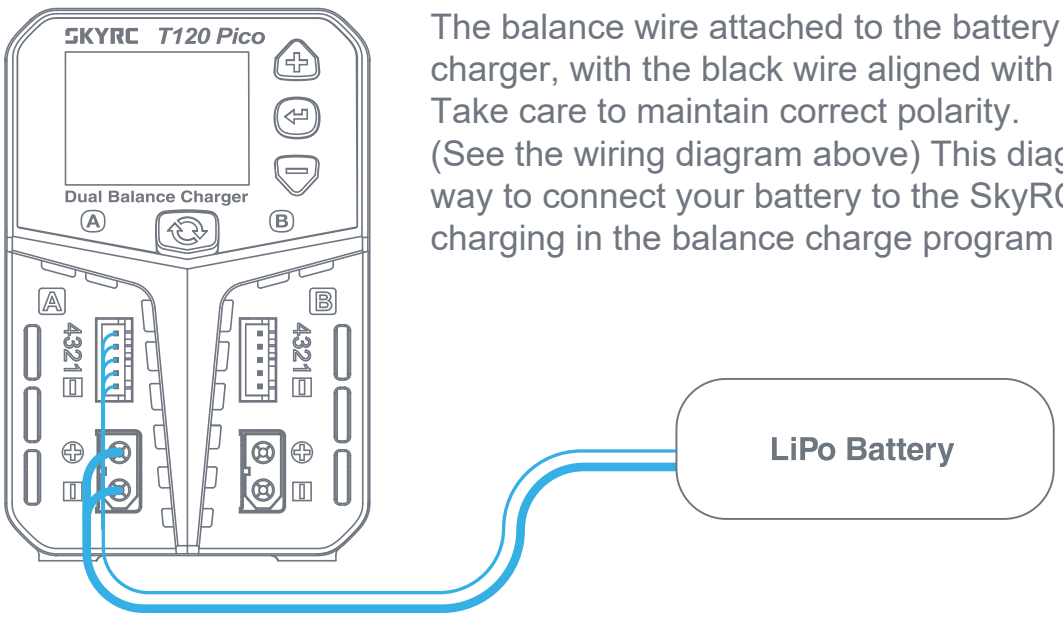
It is an AC charger only.
Please insert the AC power cord to the wall socket (100-240V) directly to power it on.



2. Connecting the battery

WARNING!

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.



The balance wire attached to the battery must be connected to the charger, with the black wire aligned with the negative marking. Take care to maintain correct polarity.
(See the wiring diagram above) This diagram shows the correct way to connect your battery to the SkyRC T120 Pico when charging in the balance charge program mode.

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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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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