TITAN X SERIES CHARGERS PRODUCT MANUAL

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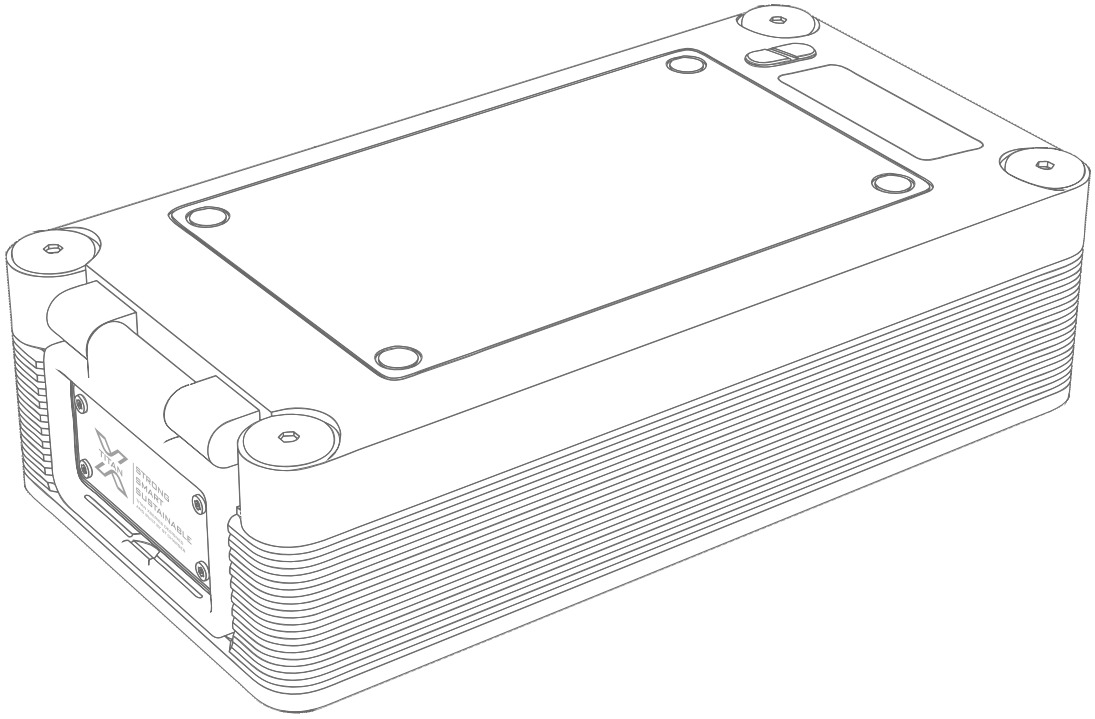


Product Parameters

Li-ion battery charger

STC-9130LC 1300W

Company Information

Kunshan st electronics co., ltd

No. 6 Wenpu West Road Qiandeng Kunshan China

www.stchargers.com

Titan x series designed and built by st charger

(Date:Sept 2025)

1.ST Charger Titan X Series Industrial Battery Charger

Scope

This manual applies to the ST Charger Titan X Series industrial battery chargers.

Important Notice

Before operating or using any Titan X Series battery charger, please read and fully understand this manual. It contains important safety instructions, operating procedures, and installation guidelines.

User Guidance

- Always read this manual carefully before using your ST Charger.
- Keep this manual in a safe place for future reference.
- For technical support, please contact the vehicle or equipment manufacturer/dealer, as the charger version provided with your application may require specific operating instructions.

2.Safety Information

Warning

Only use this charger with a charging algorithm that matches the specific battery type and capacity. Incorrect use may cause personal injury or equipment damage. Lead acid batteries may release explosive hydrogen gas during normal charging—keep sparks, open flames, and smoking materials away from the batteries. For lithium-ion batteries, a properly integrated battery management system (BMS) is required. The BMS must protect all battery cells from unsafe voltage, current, temperature, and state of charge under all operating conditions. Do not use the charger in enclosed spaces or block ventilation. Never charge frozen or non-rechargeable batteries. Always follow the safety instructions provided by the battery manufacturer.

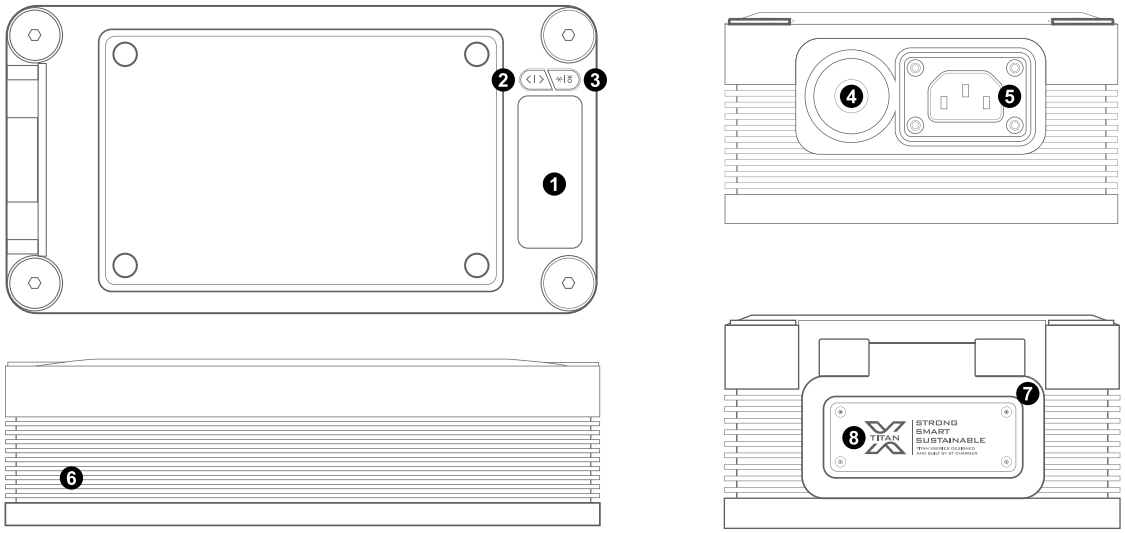
Danger

Risk of electric shock. Connect the Titan X series charger only to a properly installed and grounded AC outlet according to local codes. Do not use grounding adapters or modify the plug. Avoid contact with uninsulated parts of the output connector or battery terminals. Always disconnect AC power before connecting or disconnecting the battery. Do not open, disassemble, or use the charger if it has a damaged AC cord, DC cable, or has been dropped or impacted. All repairs must be performed by the manufacturer or qualified personnel. This charger is not for use by persons (including children) with reduced physical, sensory, or mental abilities, or lack of experience with electrical systems or battery charging, unless supervised or instructed by someone responsible for their safety. Children must be supervised to prevent playing with the charger.

3.Technical specifications

NO.	Item	Standard
1	Range of input voltage	100Vac - 240Vac
2	Range of input frequency	47Hz - 63Hz
3	Efficiency	≥ 94% ≥ 93%
4	No load power	≤ 10W
5	No load current	≤ 200mA
6	Power factor	≥ 0.9
7	Output current	20A ± 2A
8	Rated output voltage	52V
9	Output range of ceiling voltage	58.8V ± 0.2V
10	Output voltage ripple and noise	≤ 520mVp-p
11	Charging stages	1) 0V - 28V ± 1V,0A; 2) 28V ± 1V - 42V ±1 V,1.5A ± 0.2A; 3) 42V ± 1V - 58V ± 1V, 20A ± 2A; 4) 58V ± 1V - 58.8V ± 0.2V, 20A--0A
12	Max voltage to keep constant-current charge	1) 0V - 28V ± 1V, 0A; 2) 28V ± 1V - 42V ± 1V, 1.5A ± 0.2A; 3) 42V ± 1V - 58V ± 1V, 20A ± 2A; 4) 58V ± 1V - 58.8V ± 0.2V, 20A--0A
13	Constant-current charge	20A ± 2A
14	LED light turns to green	1A ± 0.1A

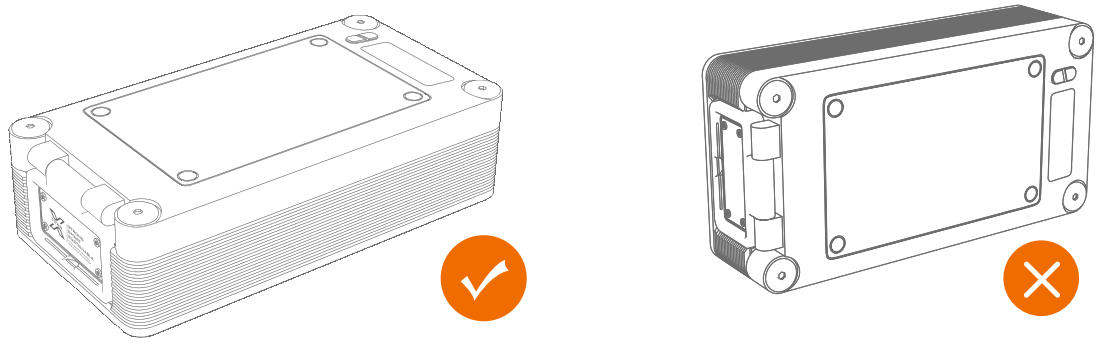
4.Product Introduction



❶ Screen ❷ Mode button ❸ Confirm and Bluetooth button

❹ AC ❺ DC ❻ Ventilation opening ❼ Handle ❽ Nameplate

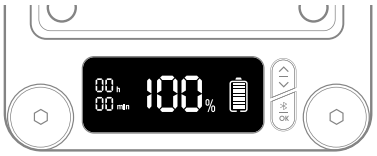
5.Placement method



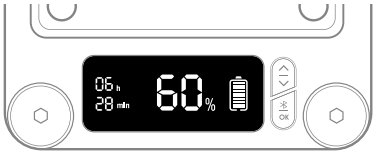
Warning

The Titan X charger is equipped with a concealed fan cooling system, with air vents located on both sides of the unit. For safe and efficient operation, place the charger on a flat, stable surface with the top side facing upward. Do not operate the charger on its side or upside down. Ensure that both sides remain unobstructed to allow proper airflow, which helps the charger maintain optimal performance and efficiency.

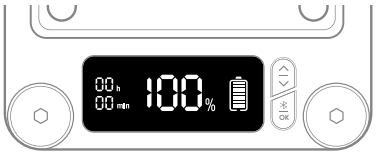
6.Buttons and Display Description

❶ 

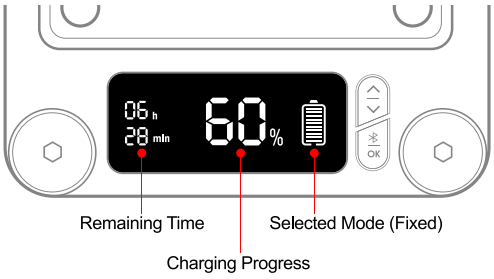
Power On (AC Only, DC Not Connected)
Breathing mode

❷ 

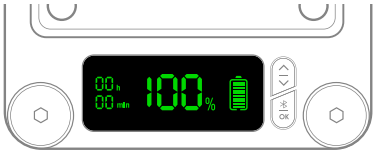
AC/DC Connected
Detecting battery

❸ 

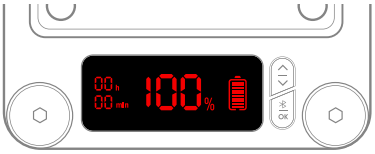
Mode (press to cycle)
Mode Setting

❹ 

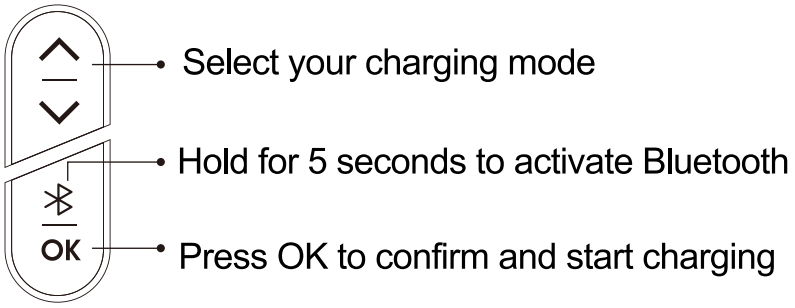
OK (press to confirm)
Start charging

❺ 

Fully charged (Green)

❻ 

Fault （Red）



PRECISE CONTROL

CHARGER

KUNSHAN ST ELECTRONICS CO., LTD

WWW.STCHARGERS.COM

TITAN

STRONG
SMART
SUSTAINABLE

TITAN XSERIES DESIGNED
AND BUILT BY ST CHARGER