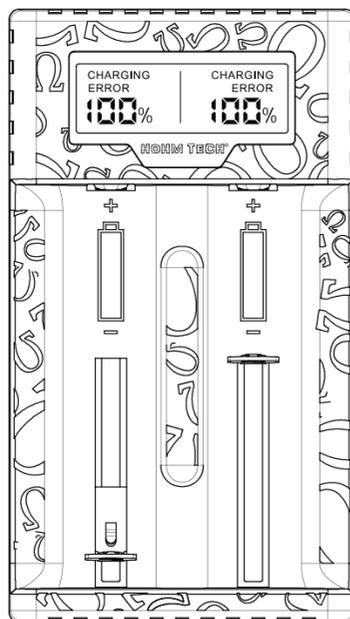


HOHM TECH

GOOD IS NOT GOOD ENOUGH,
SO WE MAKE THINGS BETTER

ONYX OHM Li-ion USB-C charger



www.hohmtech.com

USB-C (Type C) Li-ion Battery Charger

ONYX OHM

Introduction:

This manual is applicable to the ONYX OHM charger, designed for round (cylindrical) 3.6V & 3.7V Li-ion batteries only.

Compatible with the following cell sizes:

(10440/10500/12500/13450/13500/14500/14650/16500/16650/17500/17650/
17670/18490/18500/18650/18700/20700/20650/21650/21700/22500/22650/
25500/26500/26650)

Parameter	Value
Product	ONYX OHM
Type of battery	Li-ion (3.6V & 3.7V)
Input	DC 5V/2A (USB-C [Type C])
Output	DC 4.2V \pm 0.05V: 1000mA*2 \pm 10%
Activate the current	200 \pm 50mA
Low-Voltage preconditioning range	2.2V - 2.79V
Independent channels	2
LCD screen	High-contrast Matrix I/O black/white
Reverse polarity function	yes
Protection against short circuit	yes
Protection against over-voltage	yes
Intelligent stop charging	yes
Dimension(L*W*H)	120 x 68 x 29 mm (4.7 x 2.7 x 1.1 in)

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Features:

1. Real-time & Real-World charging status influenced by Electric Vehicle SoC;
2. Utilizes high-precision single-chip (HPSC) microcomputer and detection circuit for autonomous full charge cut-off;
3. Independent charging slots are both equipped with preventative safety features including: reverse polarity, short circuit, low voltage, incompatible battery type, overcharge, fire incubation, DC overload;
4. Charges round (cylindrical) 3.6V & 3.7V Li-ion batteries including: NMC/LIR/INR/ICR;
5. USB-C (Type C) power input that intelligently adapts to the output capability of the power adapter or source making the charger truly rechargeable everywhere;
6. With the low-voltage preconditioning function, the charger stimulates battery with a 200mA charge until it reaches 2.8V. This applies to Li-ion batteries between 2.2V - 2.79V (\pm 0.05V);
7. Uses precise PWM control technology, constant current (CC), and constant voltage (CV), enabling an extra layer of safety and reliable charging;
8. High-contrast Matrix I/O screen makes reading from any angle possible.

NOTE: when charging small Li-ion batteries, it is normal for the charging % to raise faster than larger batteries. The ONYX OHM charger's default of 1A (1000mA) per slot charge rate will rapidly charge smaller batteries. This can cause up to a 3% deviation from SoC with the exception of when it is at full capacity.

NOTE: ONYX OHM charger displays Real-time & Real-world state-of-charge (SoC) % value that will typically differ from other chargers and/or devices. This is normal. Charger is intentionally designed to display real-world SoC.

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LCD indication & General operation:

1. **INITIAL POWER ON INDICATION:** when power is first connected, all screen content will be displayed for 2 seconds. During this time, the charger is initializing and conducting a self-test. After the self-test is complete, the display will go dark with no content displayed. It is ready to charge.
2. **CHARGING INDICATION:** once the self-test is complete (2 second process), either of the two (or both) slots can have a Li-ion battery inserted. If there are no error(s) detected with the battery inserted, the screen will display "CHARGING" and display the real-time charge level (%). If a low-voltage Li-ion battery between 2.2V~2.79V is inserted, the screen will display only "CHARGING" while the charger applies a preconditioning 200mA charge until the battery reaches 2.8V, at which point the charger will begin applying up to 1A charge rate.
3. **FULL CHARGE INDICATION:** when the battery has reached its full capacity, the screen will display only "100%" above the slot its inserted. When 100% is achieved, remove battery. REMOVE BATTERY IMMEDIATELY AFTER 100% IS DISPLAYED.
4. **ERROR INDICATION:** screen will display "ERROR" above the slot(s) that requires attention. This will occur when a battery is inserted backwards (reverse polarity), wrong battery type is inserted, battery with critically low voltage (<2.2V) is inserted, battery with excessive charge (>4.2V) is inserted,

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Warnings:

1. Charger is strictly for charging individual Li-ion rechargeable batteries ONLY. Other battery types can lead to explosion, battery rupture, leaking, fire, burn injury, or property damage.
2. Improper use of the charger may lead to electric shock.
3. The charger is designed for indoor and dry environment use only.
4. Do not leave charger with batteries unattended. Remove batteries
5. Remove battery/batteries immediately after "100%" is displayed.
6. Operation in ambient temperatures between 0°C - 40°C (32°F - 104°F).
7. Do not disassemble or modify the charger.
8. Children are required to use the charger under the supervision of an adult.

Maintenance:

1. The device is maintenance-free but may be cleaned occasionally.
 - i. Before cleaning device, disconnect from power.
 - ii. When cleaning, only use a soft and dry cloth to clear the housing of device.
 - iii. Do not use solvents or anything abrasive to clean.

Disposal:



Used batteries that have a trash bin with "X" over it, are to be recycled and not disposed of in common trash/garbage. These types of batteries require recycling (battery regulation) at a battery recycle center. To learn where a nearby battery recycle center is, please visit: <https://www.call2recycle.org/locator/>

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Warranty:

Hohm Tech warranties this product for 1 year from the date of purchase from an authorized distributor or sales channel. Exclusions apply.

If there is a defect in craftsmanship of any component or functionality, the product can be sent directly to Hohm Tech for an exchange within 15 days of purchase. After 15 days, any defect or malfunctioning device is eligible for free repair (parts and labor) for a period of 1 year from the date of purchase. For more details, visit: www.hohmtech.com/warranty-center

Warranty exclusions apply for the following but not limited to situations:

1. Tampered with, modified in any way, marks indicating impact such as being dropped, device being opened.
2. Damaged from improper use (i.e. incorrect installation or installation of non-rechargeable batteries).
3. Damaged by faulty battery or battery short-circuit caused from improper battery wrap or absence of battery insulator.

For the latest information on products and service, contact the local distributor or send email to: hello@hohmtech.com.

HOHM TECH

<https://www.hohmtech.com>

warranty: 1 year

Assembled in China



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