

1 Safety Instructions

1.1 General precautions

- Do not drop the product or subject it to heavy shocks.
- Have the product repaired by a qualified technician only.

1.2 Precautions for electrical products

- Protect the device from dirt, moisture, overheating, extreme temperatures and use it only in dry rooms.
- Do not open the device and do not continue to operate it if damaged.
- Never use force when plugging in the device or when using adapters.
- Do not operate the device outside its performance limits specified in the technical data.

1.3 Precautions for batteries

- Recharge the battery regularly (at least quarterly) during longer storage.
- Never open, damage, swallow or allow batteries or accumulators to escape into the environment, as they contain toxic and environmentally harmful heavy metals.
- In case of a leaking battery, the liquid must not meet your skin or eyes. In case of contact, rinse with plenty of water and consult a doctor.

2 Technical Data

Batteries: 4x 21700 Tesla™ graphene composite battery

Capacity: 20,000mAh / 74Wh

Maximum power consumption / output power: 160W

Supported fast charging standards: USB Power Delivery 3.0 (100W)

Qualcomm Quick Charge 3.0, SCP, VOOC, SV00C, AFC, BC1.2

Input power USB-C1: DC 5V/2.4A, 9V/3A, 12V/3A, 15V/3A, 20V/5A (PD) 100W max.

Output power USB-C1: DC 5V/2.4A, 9V/3A, 12V/3A, 15V/3A, 20V/5A (PD) 100W max.

nput power USB-C2: DC 5V/2.4A, 9V/3A, 12V/3A, 15V/3A, 20V/3A (PD) 60W max.

Output power USB-C2: DC 5V/2.4A, 9V/3A, 12V/3A, 15V/3A, 20V/3A (PD) 60W max.

Output power USB-A:

DC 5V/4.5A, 9V/2A, 12V/2A (QC 3.0/SCP/VOOC/PE2.0/FCP/AFC/BC1.2) 24W max.

Output power Qi charging area smartphone: DC 9V/1.67A, 5V/1A, 5V/1.5A, 5V/2A 15W max.

Output power Qi charging area smartwatch: DC 5V/0.3A 1.5W max.

USB-C1 + USB-C2 = 65W + 30W, 2 outputs simultaneously, total 95W.

USB-C1 + USB-C2 + USB-A = 65W + 10W + 10W, 3 outputs simultaneously, total 85W

USB-C1 + USB-C2 + Wireless = 45W + 30W + 15W, 3 outputs simultaneously, total 90W

Frequency range smartphone charging surface: 110k-205kHz

Transmit power smartphone charging surface: 15W max.

Smartwatch radio frequency range: 120-200kHz

Transmit power smartwatch charging surface: 1.5W

2 coils for wireless output: 15W fast charge + 1.5W watches

Charging cycles: 800

Charging time from empty to 80% (16,000mAh): 35min

Powerbank charging time from empty to fully charged: approx. 70min (at 100W input power)

DC/DC input efficiency: 76% - 82%.

Efficiency: 70% ± 5%

3 Getting Started

3.1 How to recharge the Powerbank

Fully charge the device before using it for the first time. Switch on the Powerbank. The LED screen will light up and the battery symbol will show the current battery status of the VoltHub Graphene.

The supplied cable already supports the fastest charging standard. However, the charging speed also depends on the charger you use (sold separately):

Recharging times of the Powerbank

- USB-C mains charger with Power Delivery and 100 Watt: ~70min

- MacBook Pro charger: ~90min

- Quick charger (e.g. Qualcomm Quick Charge): ~5-6h

- Normal charger: ~9h

Above mentioned times refer to the fastest charging port USB-C1.

3.2 How to charge a phone or other device

You have various options for charging your devices:

USB-C:

Use these ports to charge USB-C notebooks or smartphones that support Power Delivery, such as iPhones from Generation 8 and above.

USB-A:

This port supports a variety of fast charging protocols, such as Qualcomm Quick Charge. It therefore quickly charges many different types of Android smartphones.

Wireless Charging (Smartphone and Smartwatch):

If you do not have a cable at hand, wireless charging on the go can be very useful. Simply place your device on the charging area. If it does not charge wirelessly, check the points under "Troubleshooting".

Note that there are two different charging surfaces for Smartphones and Smartwatches (see picture description).

4 Function notes

4.1 Temperature management

The built-in innovative composite battery cells of the VoltHub Graphene use graphene. This makes it a particularly effective conductor of heat and electricity. Compared to conventional lithium-ion batteries, more energy can be supplied during the charging process, but the temperature remains stable at around 60 degrees Celsius. So, the batteries in your VoltHub Graphene can go through up to 2,000 recharging cycles before they lose capacity. The safety of your device during fast charge is increased and the life of your smartphone battery is extended.

Overview of charging speed for the VoltHub Graphene batteries

Charging period	Input power	For safety reasons the charging speed reduces with rising temperature.
0-8 minutes	160W	
8-13 minutes	125W	
13-30 minutes	110W	

*measured in an environment at 20°C room temperature

4.2 How to read the LED display

If the power bank is switched on, the LED indicator lights up and the battery symbol shows the remaining battery status. This is what the symbols mean:

Progress bar	1 bar	2 bars	3 bars	4 bars	5 bars
Remaining energy	11% - 20%	21% - 40%	41% - 60%	61% - 80%	81% - 100%

- If the battery of the VoltHub Graphene is almost empty, the bars in the battery symbol flash.

- If the battery charge level of the device to be charged is below 80%, quick charging starts and PD OUT is shown in the display.

- If the charge level is above 80%, the standard charging process starts. OUT appears in the display.

- The wireless symbol indicates that a device is being charged wirelessly.

4.3 Additional information on charging

- If you connect another device, the power bank changes the distribution of the output power. This is done by deliberately interrupting the charging process of the other devices for a short time.

- Interrupt the charging of your devices if only 1 bar is displayed on the power bank or if it is flashing (<10% charge). First recharge the power bank battery.

- If the power bank is empty, the LED display stops flashing and the VoltHub Graphene automatically turns off.

- The power bank only charges laptops when it has enough power itself.

5 Troubleshooting

5.1 My device does not charge via Wireless Charge

- Check if the smartphone you are using is compatible for fast wireless charging. If possible, also test it with another wireless charger.

- If necessary, remove the protective cover or metal sticker from the back of your device.

- Check to see if another device that supports wireless charging is not charging. This will help determine if there is a defect or compatibility problem.

- Switch on the power bank via power button, so the display is active and press the power button a second time, to manually start the wireless charging. The wireless charging symbol in the display indicates whether, the wireless charging is active or not. Long press the power button to manually deactivate the wireless charging again.

5.2 Charging is too slow

- Note that you need the right charger and cable for the fastest charging.

- For quick charging the power bank or a MacBook Pro, for example, you need a 5A USB-C cable. This is included in the scope of delivery.

- To quick charge the power bank, you will also need a USB-C charger with Power Delivery and 100 watts of power output (sold separately).

- For fast charging iPhones, a Mfi-certified USB-C to Lightning cable (sold separately) is required. Only 8th-generation iPhones and above support fast charging via Power Delivery.

4.2 Wie liest man die LED-Anzeige

Ist die Powerbank eingeschaltet, leuchtet die LED-Anzeige auf und das Batteriesymbol zeigt den verbleibenden Akkustand an. Das bedeuten die Symbole:

Fortschrittsbalken	1 Balken	2 Balken	3 Balken	4 Balken	5 Balken
Verbleibende Energie	11% - 20%	21% - 40%	41% - 60%	61% - 80%	81% - 100%

- Ist der Akku der VoltHub Graphene fast leer, blinken die Balken im Batteriesymbol.

- Liegt der Akkuladestand des zu ladehenden Gerätes unter 80%, startet die Schnellladung und PD OUT wird im Display angezeigt.

- Liegt der Ladestand über 80% beginnt der Standardladevorgang. Im Display erscheint OUT.

- Das Wireless-Symbol zeigt dir an, dass ein Gerät kabellos geladen wird.

4.3 Zusätzliche Hinweise zum Aufladen

- Schließt du ein weiteres Gerät an, stellt die Powerbank die Verteilung der Ausgangsleistung um. Hierfür wird bewusst für einen Moment der Ladevorgang der anderen Geräte unterbrochen.

- Unterbrich die Ladung deiner Geräte, wenn an der Powerbank nur 1 Balken angezeigt wird oder diese blinkt (<10% Ladung). Lade zunächst den Powerbank Akku wieder auf.

- Ist die Powerbank leer, hört die LED-Anzeige auf zu blinken und die VoltHub Graphene schaltet sich automatisch aus.

- Die Powerbank lädt Laptops nur dann, wenn sie selbst über ausreichend Energie verfügt.

5 Fehlerbeseitigung

5.1 Mein Gerät lädt nicht über Wireless Charge

- Prüfe, ob das aufgelegte Smartphone kompatibel zum schnellen, kabellosen Aufladen ist. Teste es ggf. auch mit einem anderen Wireless Charger.

- Entferne ggf. die Schutzhülle oder Metallaufkleber von der Rückseite deines Geräts.

- Prüfe, ob ein anderes Gerät, welches kabelloses Aufladen unterstützt, ebenfalls nicht lädt. Somit lässt sich herausfinden, ob ein Defekt oder ein Kompatibilitätsproblem vorliegt.

- Schalte die Powerbank über die Power-Taste ein, so dass die Anzeige aufleuchtet und drücke ein zweites Mal auf die Power-Taste, um den kabellosen Ladevorgang manuell zu starten. Halte die Power-Taste gedrückt, um den kabellosen Ladevorgang wieder manuell zu beenden. Das Wireless-Symbol im Display zeigt dir an, ob das drahtlose Aufladen aktiviert oder inaktiv ist.

5.2 Das Aufladen ist zu langsam

- Beachte, dass du für das schnellste Aufladen das richtige Ladegerät und das richtige Kabel benötigst.

- Für das schnelle Aufladen der Powerbank oder von z.B. einem MacBook Pro benötigst du ein USB-C Kabel mit 5A. Dieses ist im Lieferumfang enthalten.

- Für das schnelle Aufladen der Powerbank benötigst du zusätzlich ein USB-C Ladegerät mit Power Delivery und 100 Watt Ausgangsleistung (separat erhältlich).

- Für die schnelle Ladung von iPhones ist ein Mfi-zertifiziertes USB-C auf Lightning-Kabel erforderlich (separat erhältlich). Nur iPhones ab der 8. Generation unterstützen das schnelle Aufladen über Power Delivery.

6 Care and Maintenance

Only use a soft, dry cloth to clean the device.

7 Warranty

The 4smarts GmbH assumes no liability and provides no warranty for damage resulting from improper installation or mounting, improper use of the product or from failure to observe the operating instructions and/or safety notes.

8 Disposal Notification

 Electric and electronic devices as well as batteries must not be disposed of with household waste. Consumers are obliged by law to return electric and electronic devices as well as batteries at the end of their service lives to the public collecting points set up for this purpose or point of sale.

9 Service and Support

If the product is defective or in case of problems during installation, please consult your dealer or the 4smarts product consulting via: <http://www.4smarts.com/contact>

Service Hotline

Monday - Friday: 9 - 17h

+ 49 (0)821 20708444

E-Mail: customer-service@4smarts.com

10 Attestation of Conformity

Hereby, 4smarts GmbH, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be consulted at www.4smarts.com.

6 Wartung und Pflege

Verwende zur Reinigung nur trockene, weiche Tücher.

7 Gewährleistung

Die 4smarts GmbH übernimmt keinerlei Haftung oder Gewährleistung für Schäden, die aus unsachgemäßer Installation, Montage und unsachgemäßem Gebrauch des Produktes oder einer Nichtbeachtung der Bedienungsanleitung und/oder der Sicherheitshinweise resultieren.

8 Hinweise zum Umweltschutz

 Elektrische und elektronische Geräte sowie Batterien dürfen nicht mit dem Hausmüll entsorgt werden. Der Verbraucher ist gesetzlich verpflichtet, elektrische und elektronische Geräte sowie Batterien am Ende ihrer Lebensdauer an den dafür eingerichteten, öffentlichen Sammelstellen oder an die Verkaufsstelle zurückzugeben.

9 Service und Support

Bei defekten Produkten oder Problemen während der Installation wende dich bitte an deinen Händler oder an die 4smarts Produktberatung auf: <http://www.4smarts.com/contact>

Service Hotline

Montag – Freitag: 9 – 17h

+ 49 (0)821 20708444

E-Mail: customer-service@4smarts.com

10 Konformitätshinweis

Hiermit erklärt die 4smarts GmbH, dass sich dieses Produkt in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2014/53/EU befindet. Die Konformitätserklärung nach der RED Richtlinie findest du unter www.4smarts.com.



- ON/OFF
- LED display
- Power Delivery input/output USB-C1
- Quick Charge 3.0 output USB-A
- Power Delivery input/output USB-C2
- output 1 for wireless charging of smartphones
- output 2 for wireless charging of SmartWatches

4smarts

Inductive Power Bank

VoltHub Graphene UltiMag 20000mAh



Thank You

for choosing a quality product from 4smarts

4smarts

Thanks for buying our product! We at 4smarts are sure it will serve you well. Follow us on social media for news, customer support and to win great prizes. See you there!



@4smarts_official



facebook.com/4smarts



linkedin.com/company/4smarts



All listed brands are trademarks of the corresponding companies. Errors and omissions excepted, and subject to technical changes. Our general terms of delivery and payment are applied.