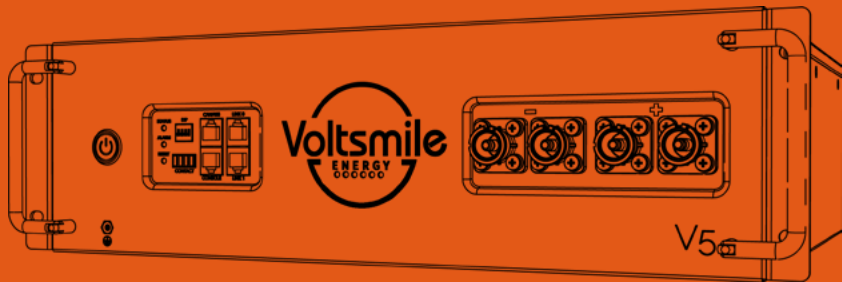




OWNER'S GUIDE



Dear customer

Congratulations, and thank you for purchasing Voltsmile products!

Your decision will greatly help greening our environment and energy structures while saving on your energy bill and saying goodbye to blackouts.

Every Voltsmile product receives thorough tests and inspections before leaving our factory to ensure all our products are maintenance-free and reliable through decades of their lifetime.

Disappearing in your life while saving money, unnoticeable while making sure your home stay connected.



01. Safety

03. Specification

05. Installation

07. Indication

02. Interface

04. Packing list

06. DIP and pinout

08. Remark

When using electrical appliances, basic safety precautions should always be followed, include followings:



KEEP DRY



KEEP COOL



ELECTRIC SHOCK

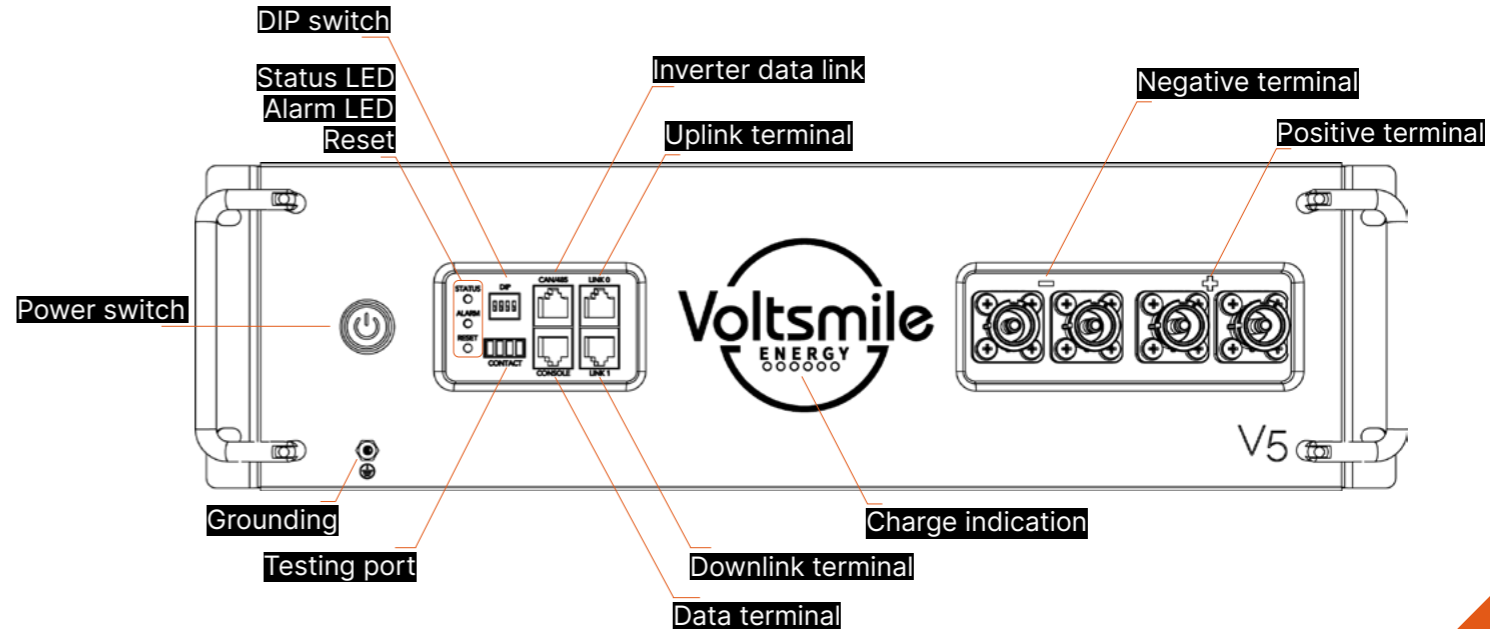


DO NOT OPEN

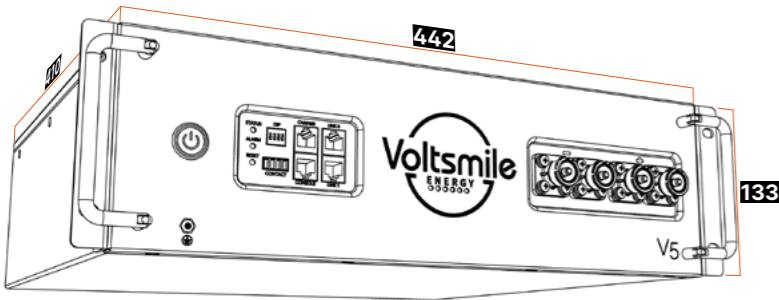


INDOOR ONLY

1



2



Voltage(V) : **48**
 Capacity (Ah): **50**
 Weight (Kg): **26**
 Discharge voltage (V): **44.5 ~ 53.5**
 Charge voltage (V): **52.5 ~ 53.5**
 Charge current(A): **50 max**
 Discharge Current (A): **50 max**
 Peak charge/discharge current (A): **100 @ 10sec**
 Depth of discharge: **95%**
 Communication: **RS485 / RS232 / CAN**
 Charge temperature: **0°C ~ 50°C / 23°F ~ 122°F**
 Discharge temperature: **-20°C ~ 50°C / -4°F ~ 122°F**
 Shelf temperature: **-20°C ~ 60°C / -4°F ~ 140°F**
 Humidity: **5% ~ 95% (RH)**
 Protection rating: **I**
 IP rating: **IP20**
 Altitude: **<4500M**
 Designed life: **10 years+**
 Life cycle: **6000+**



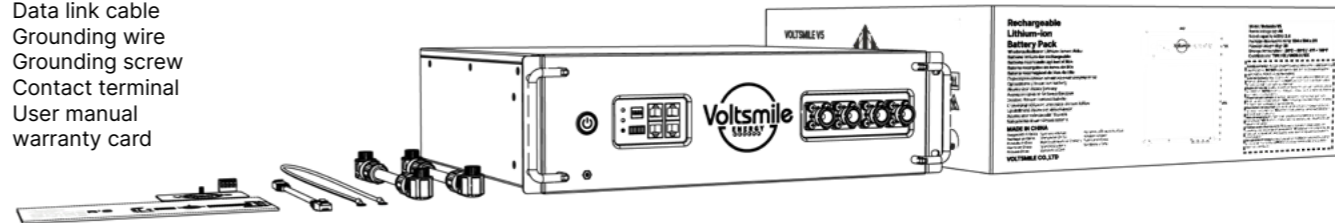
Warning:

Installation and maintenance should only be carried out by trained professionals. We do not undertake any consequences or related responsibility because of violation of safety operation or violation of design, production and equipment safety standards.

1. After unpacking, please check the product and packing list first. If the product is damaged or missing parts, please get in touch with your local dealer.

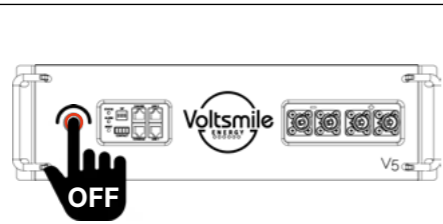
Packing list:

- Voltsmile V5
- Positive power connector
- Negative power connector
- Data link cable
- Grounding wire
- Grounding screw
- Contact terminal
- User manual
- warranty card

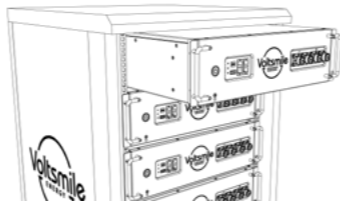




①. Check the battery.



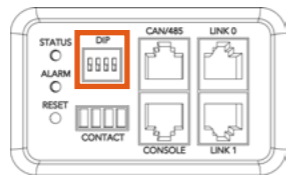
②. Make sure batteries are turned off before install.



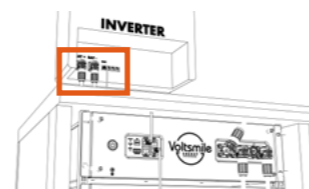
③. Secure the batteries in fixed place, preferably on a server rack.



④. Connect power cables and data cables.

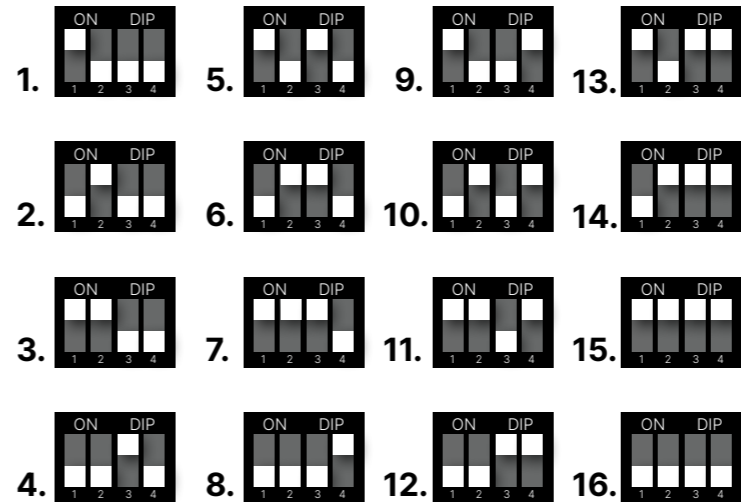


⑤. Make sure the all the DIP switch are in the correct position.

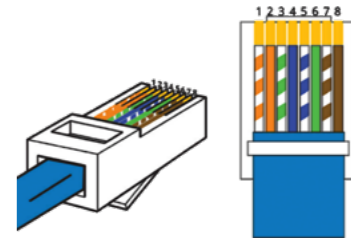


⑥. Connect to interver's battery terminals and data port.

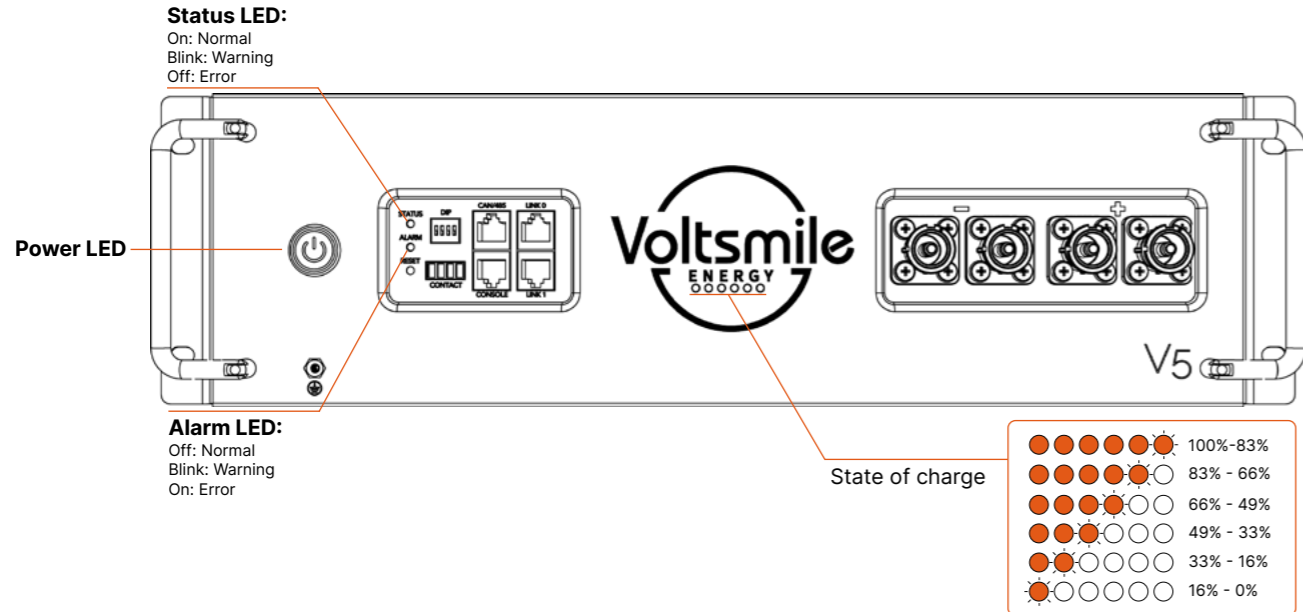
Battery position:



Cable pinout:



Pin	Colour	Defenition
1	Orange & White	NC
2	Orange	NC
3	Green & White	NC
4	Blue	CANH
5	Blue & White	CANL
6	Green	CAN_GND
7	Brown & White	485_A
8	Brown	485_B



In case a battery (normal condition or damaged) needs disposal or needs recycling, it shall follow the local recycling regulation (i.e. Regulation (EC) Number 1013/2006 among European Union) to process and use the best available measures to achieve relevant recycling efficiency.

1. It is required to charge the battery at least once every six months. For this charge, maintenance ensures the SOC is higher than 90%.
2. The connection of the power connector, grounding point, power cable and screw are suggested to be checked yearly. Ensure there is no loose, broken, or corrosion at the connection point. Check the installation environment, such as dust, water, insect and more, to ensure it is suitable for the IP20 battery system.
3. If the battery is stored for a long time, it must charge every six months, and the SOC should be higher than 90%.

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