

OWNER'S GUIDE



Dear customer

Congratulations, and thank you for purchasing ELITEC-lithium products!

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

Every Elitec-lithium 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.

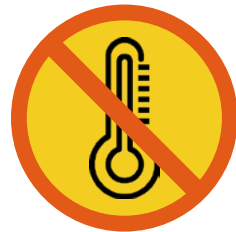


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|-----|---------------|-----|----------------|
| 01. | Safety | 02. | Interface |
| 03. | Specification | 04. | Packing list |
| 05. | Installation | 06. | DIP and pinout |
| 07. | Indication | 08. | Remark |

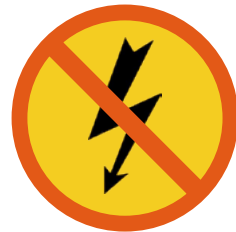
When using electrical appliances, basic safety precautions should always be followed, include followings:



KEEP DRY



KEEP COOL



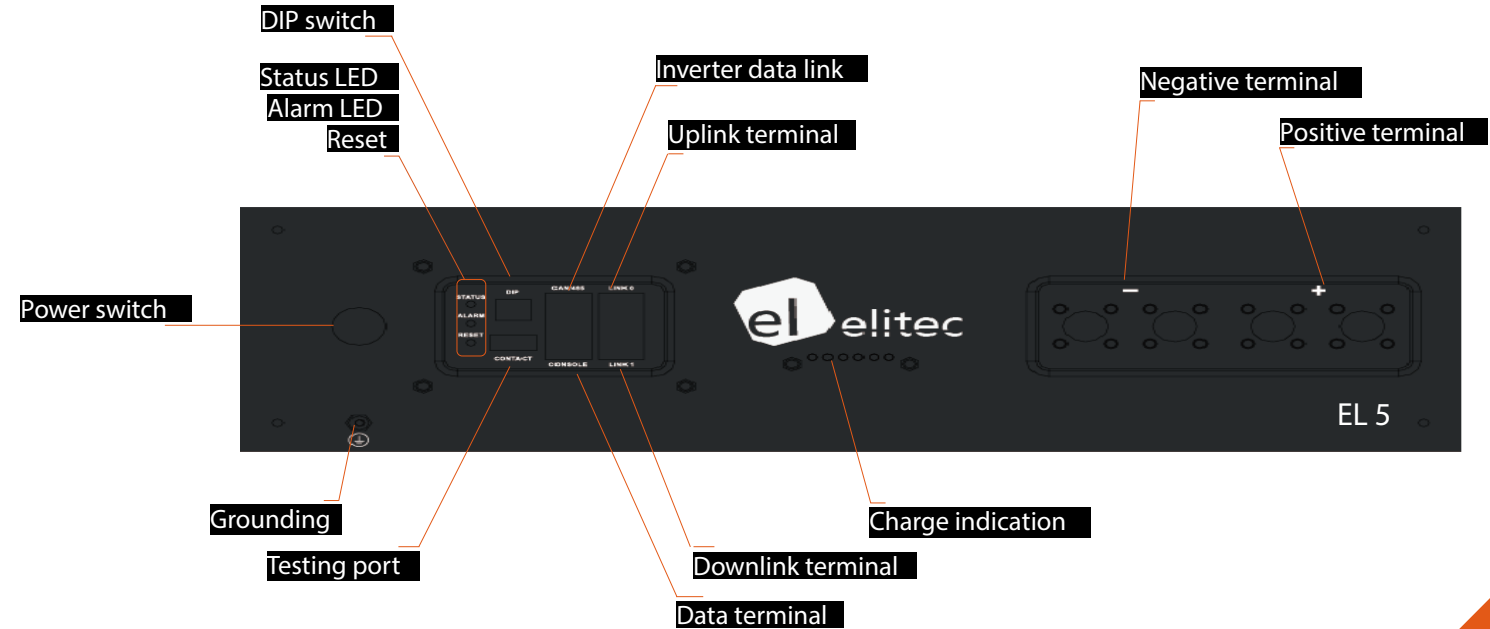
ELECTRIC SHOCK



DO NOT OPEN



INDOOR ONLY





Voltage(V): 51.2
 Capacity (Ah): 100
 Weight (kg): 42
 Discharge voltage (V): **46.4 ~ 57.6**
 Charge voltage (V): **56.8 ~ 57.6**
 Charge current(A): 100 max
 Discharge Current (A): 100 max
 Peak charge/discharge current (A): 120 @ 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+**



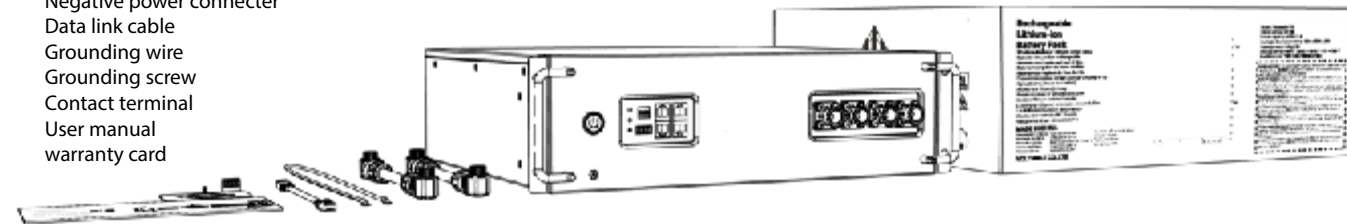
Warning:


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

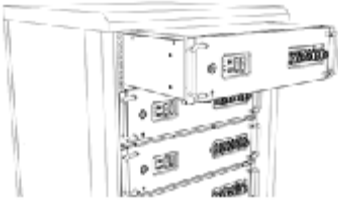




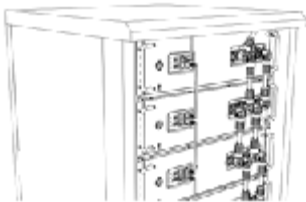
Check the battery.



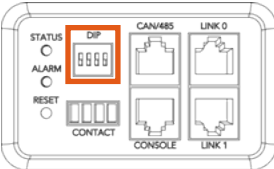
Make sure batteries are turned off before install.



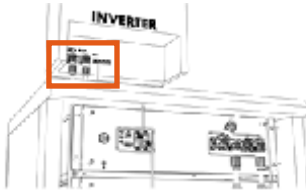
Secure the batteries in fixed place, preferably on a server rack.



Connect power cables and data cables.

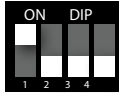
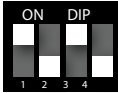
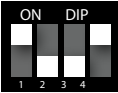
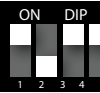
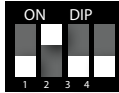
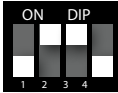
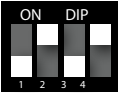


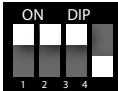
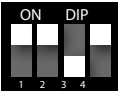
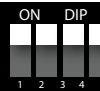
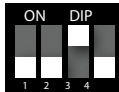
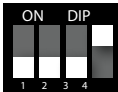
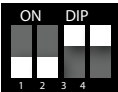
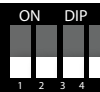


Make sure the all the DIP switch are in the correct position.

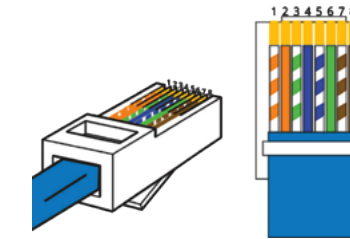


Connect to interver's battery terminals and data port.

Battery position:

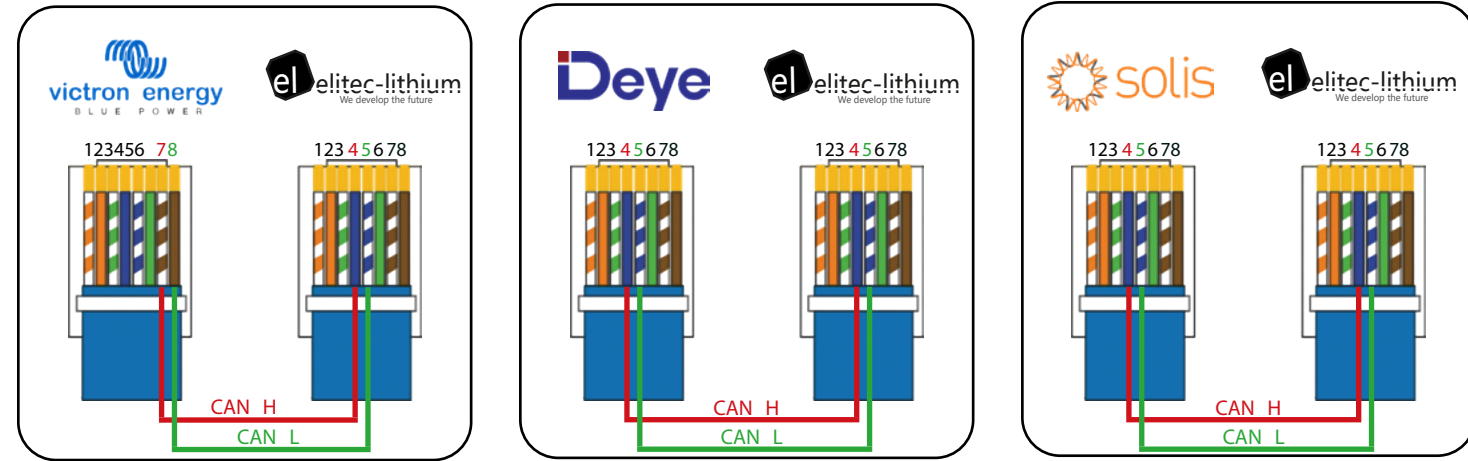
1. 	5. 	9. 	13. 
2. 	6. 	10. 	14. 
3. 	7. 	11. 	15. 
4. 	8. 	12. 	16. 

Cable pinout:

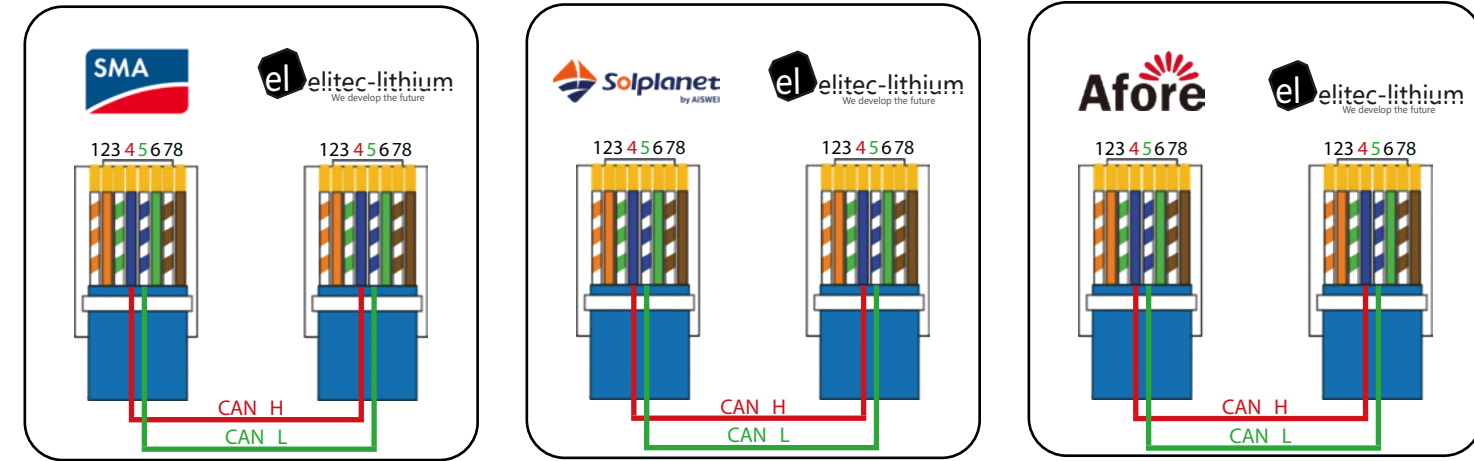


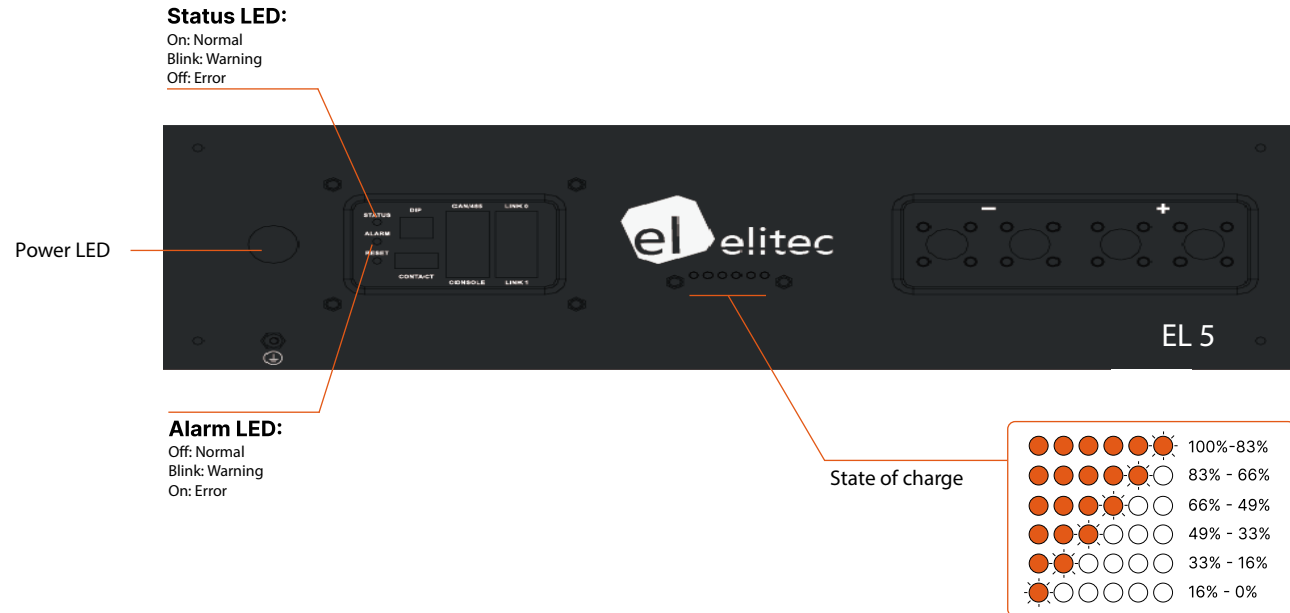
Pin	Colour	Defenition
1	Orange & White	NC
2	Orange	NC
3	Green & White	NC
4	Blue	CANH
5	Blue & White	CANL
6	Green	CAN_GND
7	Brown & White	485_A
8	Brown	485_B



Inverter cable pinout A:



Inverter cable pinout 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%.

2023 VOLTSMILE CO.,LTD

