SKYWORTH

OWNER'S GUIDE



Dear customer

Congratulations, and thank you for purchasing Skyworth products!
Your decision will greatly help greening our environment and energy structures while saving on your energy bill and saying goodbye to blackouts.
Every Skyworth 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.

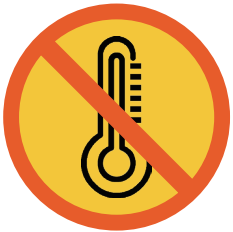


01. Safety
02. Interface
03. Specification
04. Packing list
05. Installation
06. DIP and pinout
07. Indication
08. Remark

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



KEEP DRY



KEEP COOL



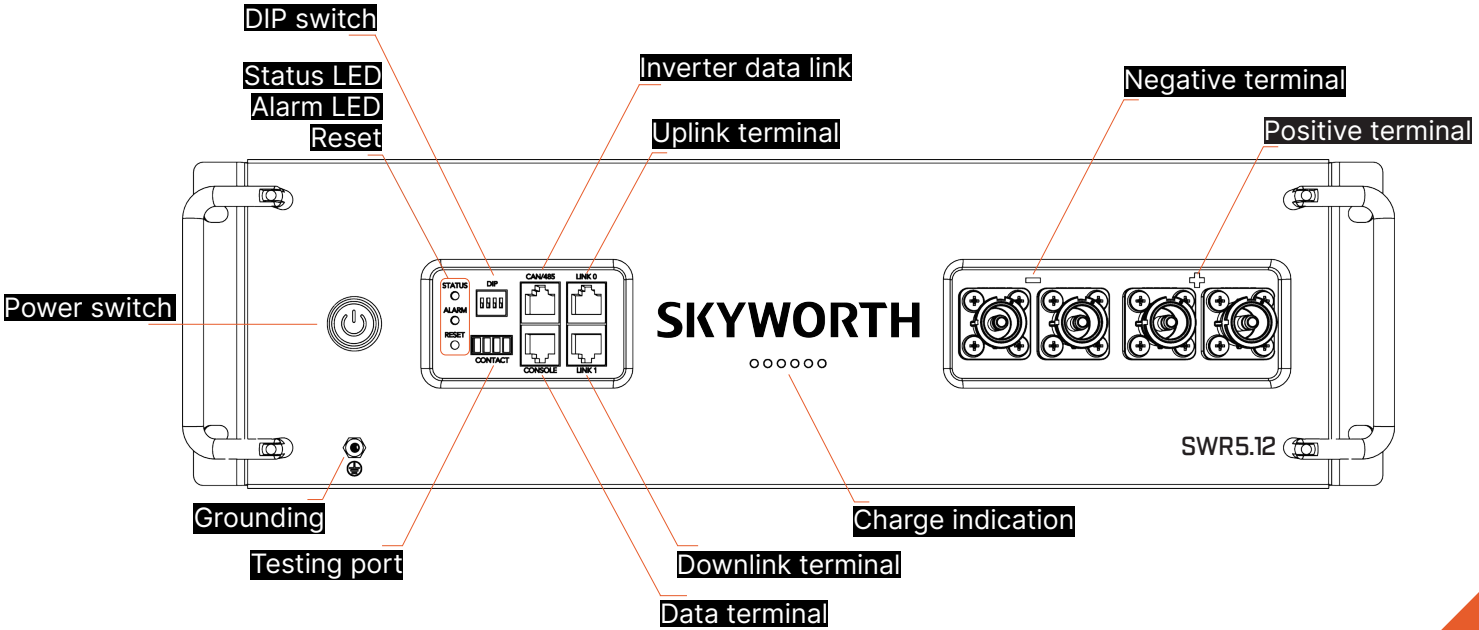
ELECTRIC SHOCK

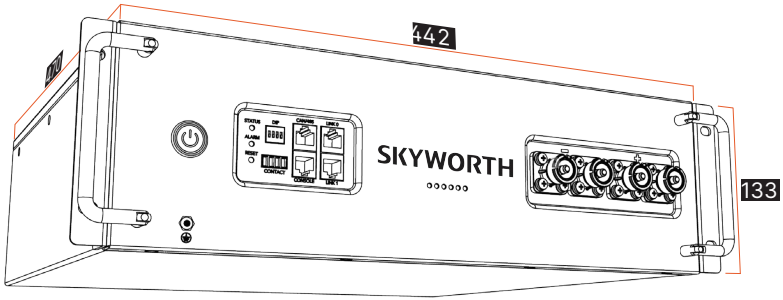


DO NOT OPEN



INDOOR ONLY


DIP switch
Status LED
Alarm LED
Reset
Inverter data link
Uplink terminal
Negative terminal
Positive terminal
Power switch
STATUS
ALARM
RESET
DIP
CONTACT
CAN/485
LINK 0
CONSOLE
LINK 1
SKYWORTH
SWR5.12
Grounding
Testing port
Downlink terminal
Data terminal
Charge indication



RoHS

IEC CE

Voltage(V) : **51.2**
Capacity (Ah): **100**
Weight (kg): **42**
Discharge voltage(V): **46.4 ~ 57**
Charge voltage (V): **56 ~ 57.6**
Charge current(A): **100** max
Discharge Current (A): **100** max
Peak charge/discharge current (A): **110** @ 1sec
Depth of discharge: **95%**
Communication: **RS485 / RS232 / CAN**
Charge temperature: **0°C ~ 50°C / 32°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+**

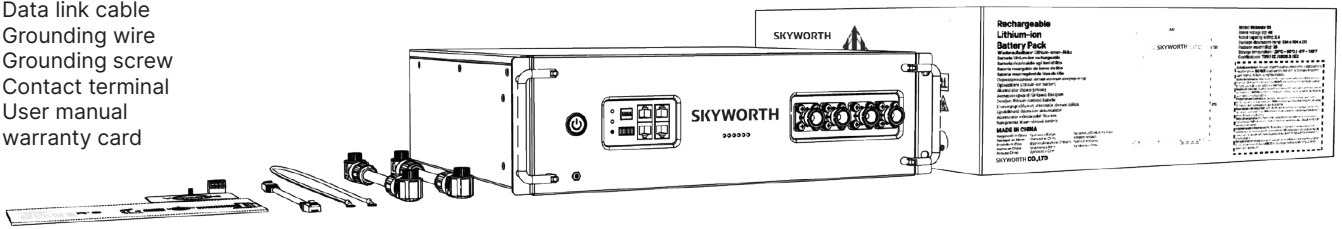
Warning:

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:

Skyworth SWR5.12
Positive power connecter
Negative power connecter
Data link cable
Grounding wire
Grounding screw
Contact terminal
User manual
warranty card

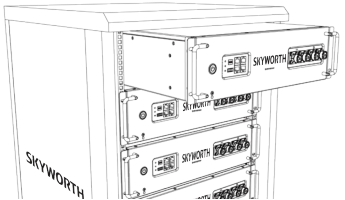




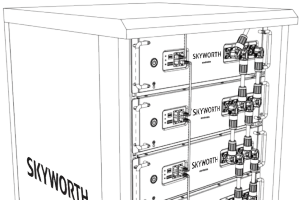
①. Check the battery.



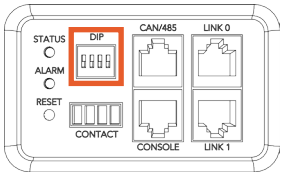
②. Make sure batteries are turned off before install.



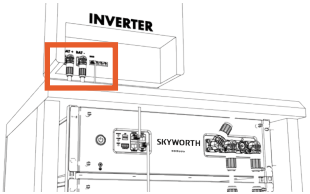
③. Secure the batteries in fixed place, preferably on a server rack.



④. Connect power cables and data cables.

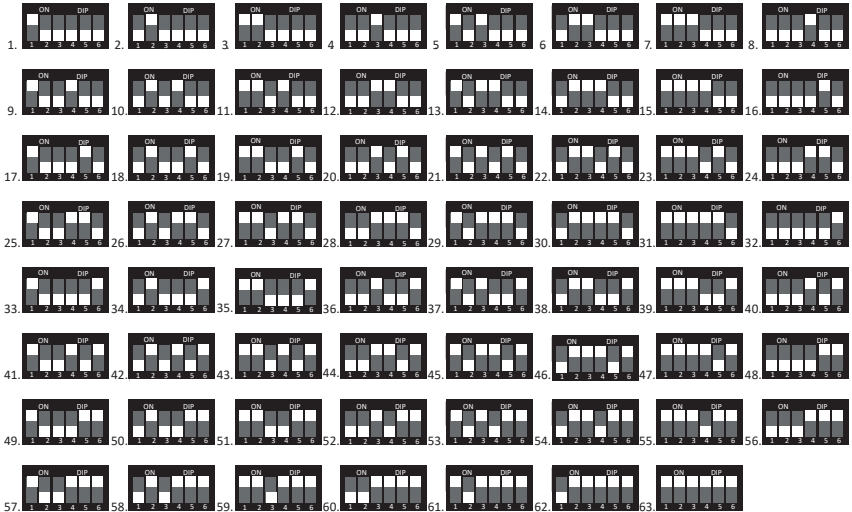


⑤. Make sure the all the DIP switch are in the correct position.

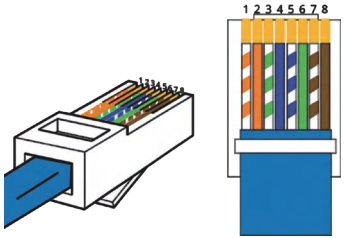


⑥. Connect to interver's battery terminals and data port.

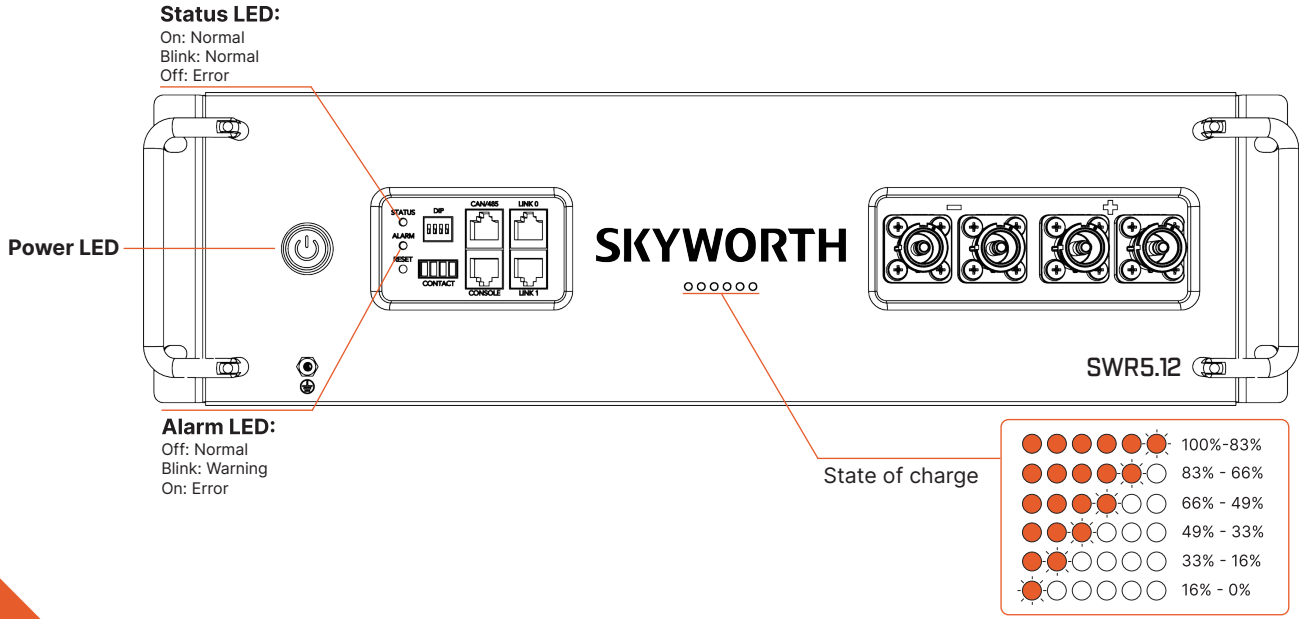
Battery position:



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


Status LED:
On: Normal
Blink: Normal
Off: Error
Power LED
Alarm LED:
Off: Normal
Blink: Warning
On: Error
STATUS
ALARM
RESET
DIP
CONTACT
CAN/485
CONSOLE
LINK 0
LINK 1
SKYWORTH
SWR5.12
State of charge
100%-83%
83% - 66%
66% - 49%
49% - 33%
33% - 16%
16% - 0%



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%.**

SKYWORTH CO.,LTD