EN 64100401

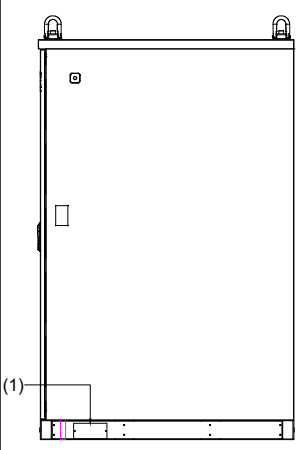
V01

QUICK INSTALLATION GUIDE

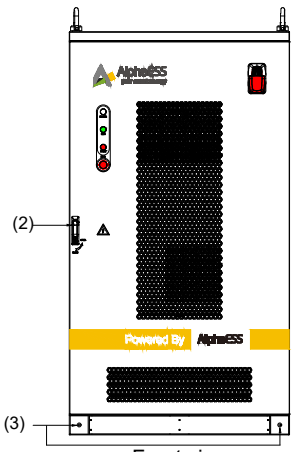
Energy System (STORION-H30/H50-G3)

1. Product Overview

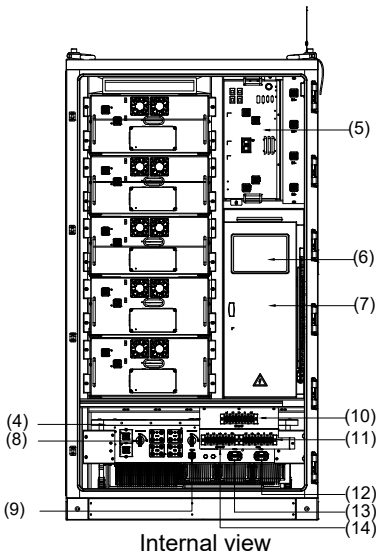
(1)External cable entry holes
(2)Cabinet door lock
(3)Grounding location*4
(4)PCS
(5)HV Box
(6)SCADA
(7)Distribution Box
(8)DC Circuit Breaker
(9)COM1 port
(10)BACK-UP output terminal
(11)Genset output terminal
(12)COM3 port(reserve)
(13)COM2 port
(14)On-grid output terminal



Right view



Front view



Internal view

1.1 Packing List (Inside the Cabinet)

S1	S2	S3	S4
PV terminal 8 pairs (X1)	Screwdriver (X1)	OT terminals(50kw) (35㎟ X4) (25㎟ X8) (16㎟ X3)	OT terminals(30kw) (25㎟ X4) (16㎟ X11)

Reserve

S5	S6	S7
Battery Terminating resistor (X1)	HV-BOX Terminating resistor (X1)	10m meter communication cable 3m meter communication cable (X1)

1.2 Packing List (Outside the Cabinet)

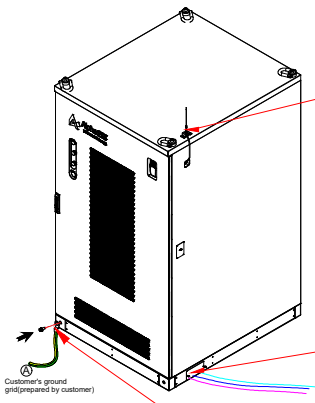
A1	A2
Meter (X1)	3 X CT (X1)

2. Installation Tools

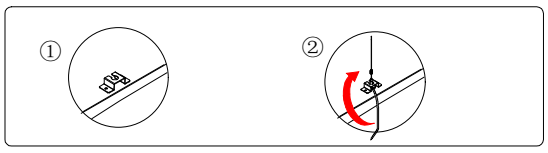
Multimeter	Insulation meter	Diagonal pliers	PH2.5x110mm PH2.5 Screwdriver	Sleeve combination tools	PH2×200mm PH2 Screwdriver
Torque driver	Wire Stripper	Network Wire Clamp	Crimping Plier	Tape Measure	Hammer drill

3. Installing the Product

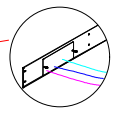
Note : Before proceeding to the next steps, please check all connected cables to ensure that the wiring is secure and that there is no visible damage.
If any damage is found, please contact our service engineer.

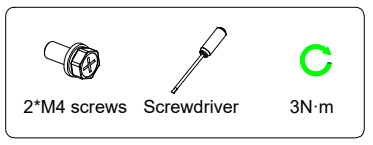


Step1: Fixed antenna.

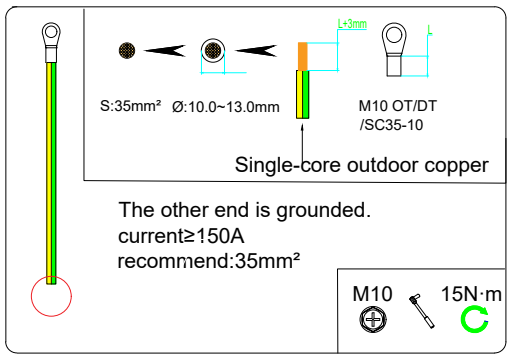


Step2:Remove the wire cover.



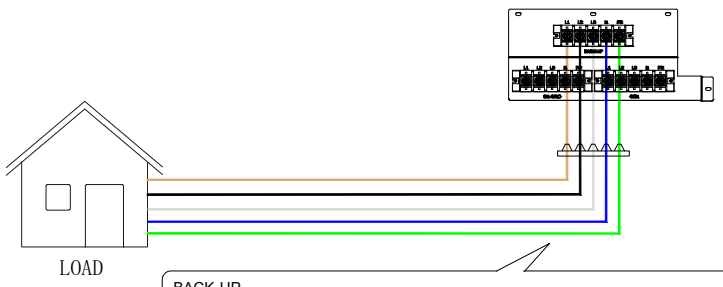


Step3:Install Ground Cable.

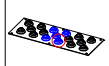


—TO GRID —TO LOAD — TO GEN

Step4:Load side connection.

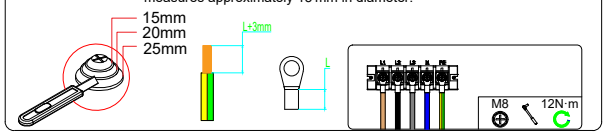


BACK-UP

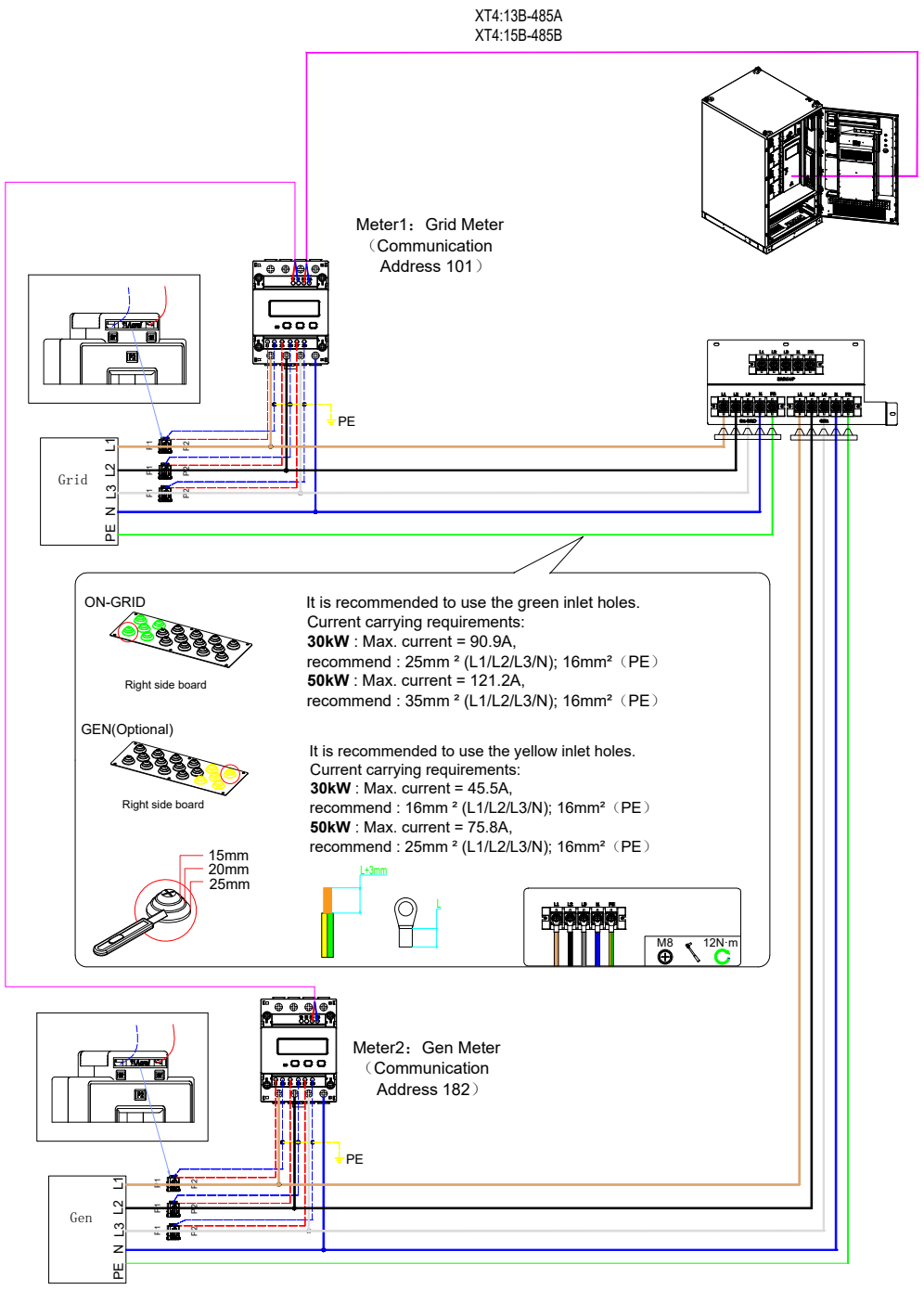


Right side board

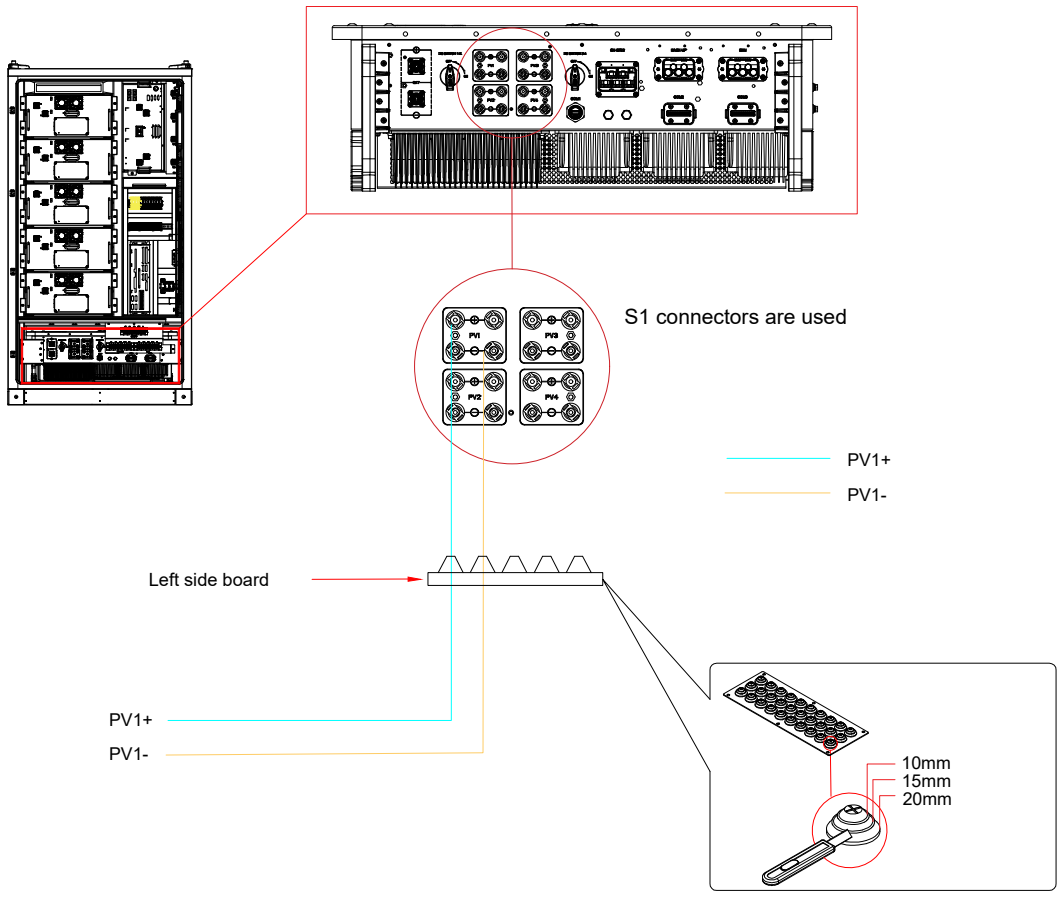
It is recommended to use the blue inlet holes.
Current carrying requirements:
30kW : Max. current = 90.9A,
recommend : 25mm ² (L1/L2/L3/N); 16mm²（PE）
50kW :Max. current =121.2A,
recommend : 35mm ² (L1/L2/L3/N); 16mm²（PE）
The value depends on the cable's outer diameter. A 35 mm² cable typically measures approximately 13 mm in diameter.



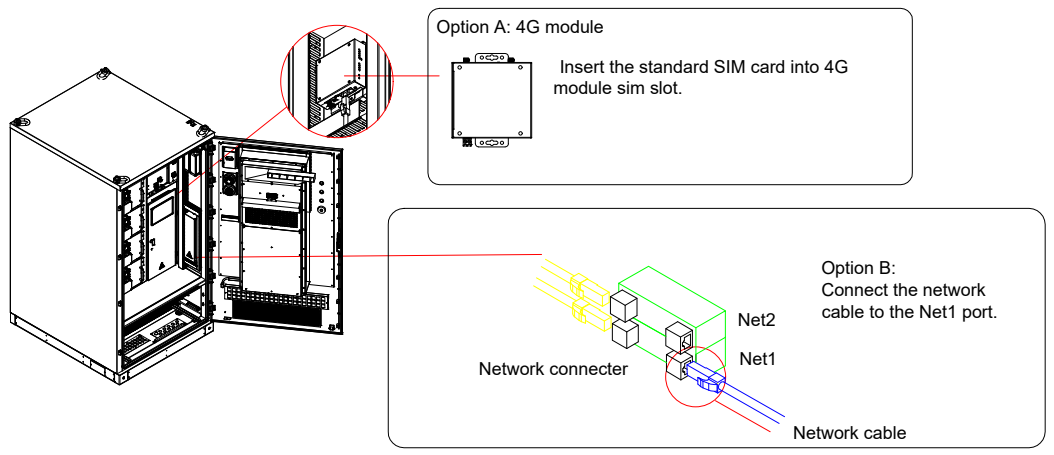
Step5:Grid/Gen side connection.



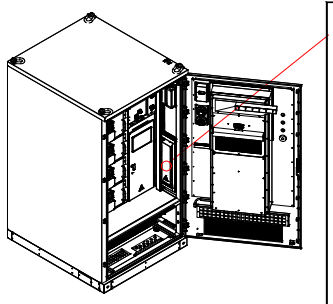
Step6:PV side connection.



Step7:Connect to the network



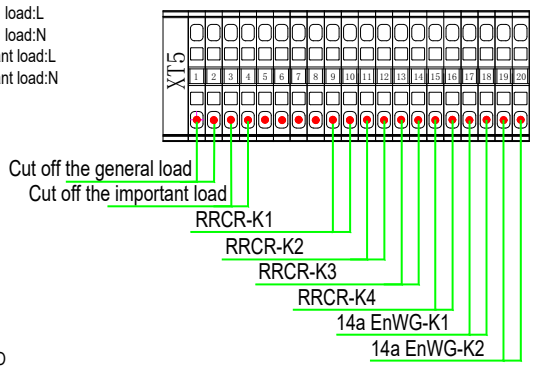
4. External Terminal Layout



Load Classification:
XT5:1B-Cut off the general load:L
XT5:2B-Cut off the general load:N
XT5:3B-Cut off the important load:L
XT5:4B-Cut off the important load:N

RRCR:
XT5:9B-RRCR-K1+
XT5:10B-RRCR-K1-
XT5:11B-RRCR-K2+
XT5:12B-RRCR-K2-
XT5:13B-RRCR-K3+
XT5:14B-RRCR-K3-
XT5:15B-RRCR-K4+
XT5:16B-RRCR-K4-

14a EnWG:
XT5:17B-Limited power:NO
XT5:18B-Limited power:COM
XT5:19B-Unlimited power:NO
XT5:20B-Unlimited power:COM

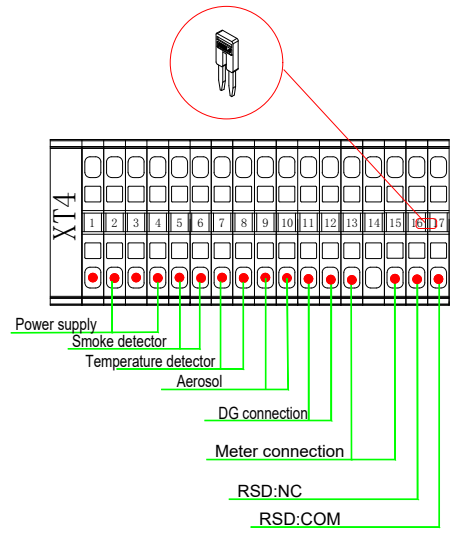


Fire fighting feed back:
XT4:2B-Power supply:DC24V
XT4:4B-Power supply:DC0V
XT4:5B-Smoke detector:NO
XT4:6B-Smoke detector:COM
XT4:7B-Temperature detector:NO
XT4:8B-Temperature detector:COM
XT4:9B-Aerosol:NO
XT4:10B-Aerosol:COM

Meter connection:
XT4:13B-485A
XT4:15B-485B

DG connection:
XT4:11B-DG:NO
XT4:12B-DG:COM

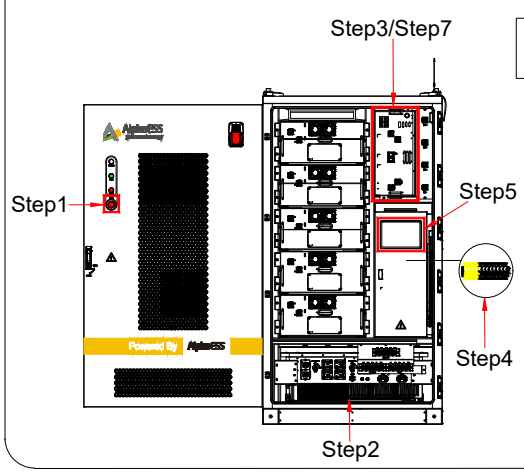
RSD:
XT4:16B-RSD:NC
XT4:17B-RSD:COM
Note：To connect the remote shutdown(RSD) signal to the system, first remove the shorting bar between the 16th and 17th terminal blocks of XT4. Then, connect the remote normally-closed signal to XT4:16B and XT4:17B respectively.

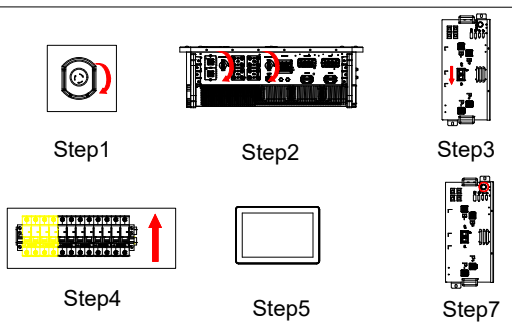


5. Commissioning

5.1 Power on the system

Before powering on, make sure the power switch for SCADA (on the back of the SCADA screen) is turned on, and all other breakers remain off.

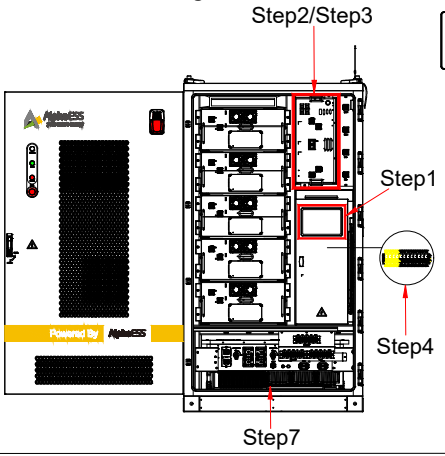


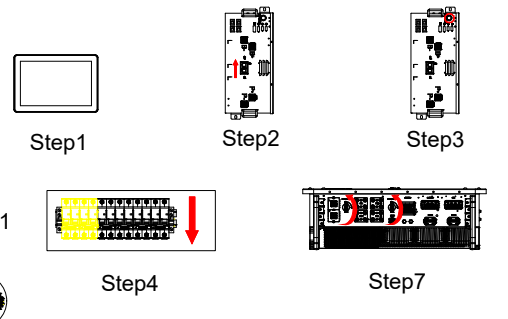


Step1: Rotate the EPO button to reset it .
Step2: Turn on the PV switches of the PCS.
Step3: Turn on the molded case circuit breaker of the HV-Box.
Step4: Turn on the Auxiliary circuit breakers.
Step5: Follow the SCADA commissioning guide to operate the system via the touch screen.
Step6: Wait approximately 3 minutes, then check on the SCADA screen to ensure that:
- The battery has no errors.
- The HV-Box relay is closed.

Step7: Press once the auxiliary button of the HV-Box.
Step8: After confirming that all systems are operating normally:
- First, turn on the grid-side circuit breaker.
- Then, turn on the load-side circuit breaker.

5.2 Power off the system





Step1: Shut down the **Windows system** on the SCADA screen.
Step 2: Turn off the molded case circuit breaker of the HV-Box.
Step 3: Press the auxiliary power switch on the HV-Box to turn it off.
Step 4: Turn off the auxiliary circuit breakers.
Step 5: Turn off the load-side circuit breaker.
Step 6: Turn off the grid-side circuit breaker.
Step 7: Turn off the PV switches of the PCS.

6. For more information, please download System User Manual and System Installation Manual

System Installation Manual

System User Manual

Alpha C&I Cloud

Alpha APP

Troubleshooting

Parallel SOP