

Quick Installation Guide

3-Phase Hybrid Inverter

SH5T / SH6T / SH8T / SH10T

SH12T / SH15T / SH20T / SH25T

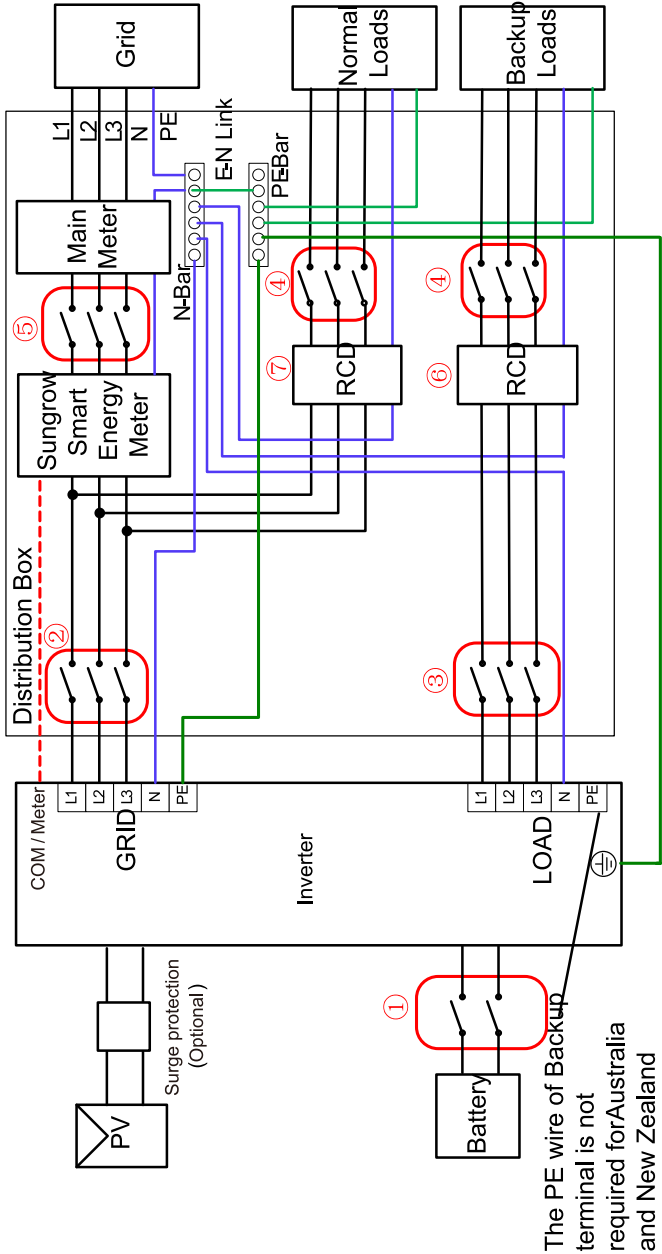


Backup Wiring Diagram (For AU / NZ)

Loads Connected to the Grid :

Model	①	②	③	④	⑤	⑥	⑦
SH5/6T		25A/400V AC breaker	25A/400V AC breaker				
SH8/10/12T		32A/400V AC breaker	32A/400V AC breaker				
SH15T		63A/800V DC breaker *	40A/400V AC breaker	Depends on loads and inverter capacity	Depends on household loads	30mA RCD (Comply with local regulation)	
SH20/25T			63A/400V AC breaker				

Note: * If the battery is integrated with a readily accessible internal DC breaker, no additional DC breaker is required.
Note: The values in the table are recommended values and can be set to other values according to actual conditions.



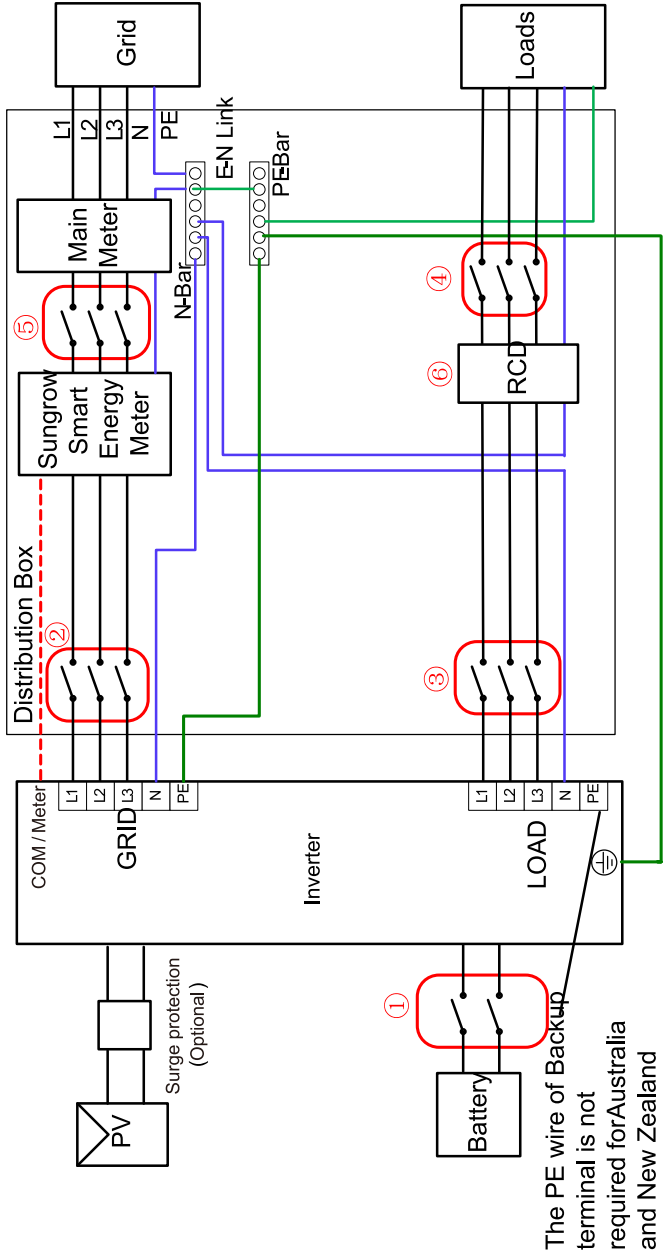
Backup Wiring Diagram (For AU / NZ)

Loads Connected to the Inverter :

Model	①	②	③	④	⑤	⑥	⑦
SH5/6T		25A/400V AC breaker	25A/400V AC breaker				
SH8/10/12T		32A/400V AC breaker	32A/400V AC breaker				
SH15T		63A/800V DC breaker * 32A/400V AC breaker	40A/400V AC breaker	Depends on loads	Depends on household loads and inverter capacity		
SH20/25T			63A/400V AC breaker				

30mA RCD (Comply with local regulation)

Note: * If the battery is integrated with a readily accessible internal DC breaker, no additional DC breaker is required.
Note: The values in the table are recommended values and can be set to other values according to actual conditions.



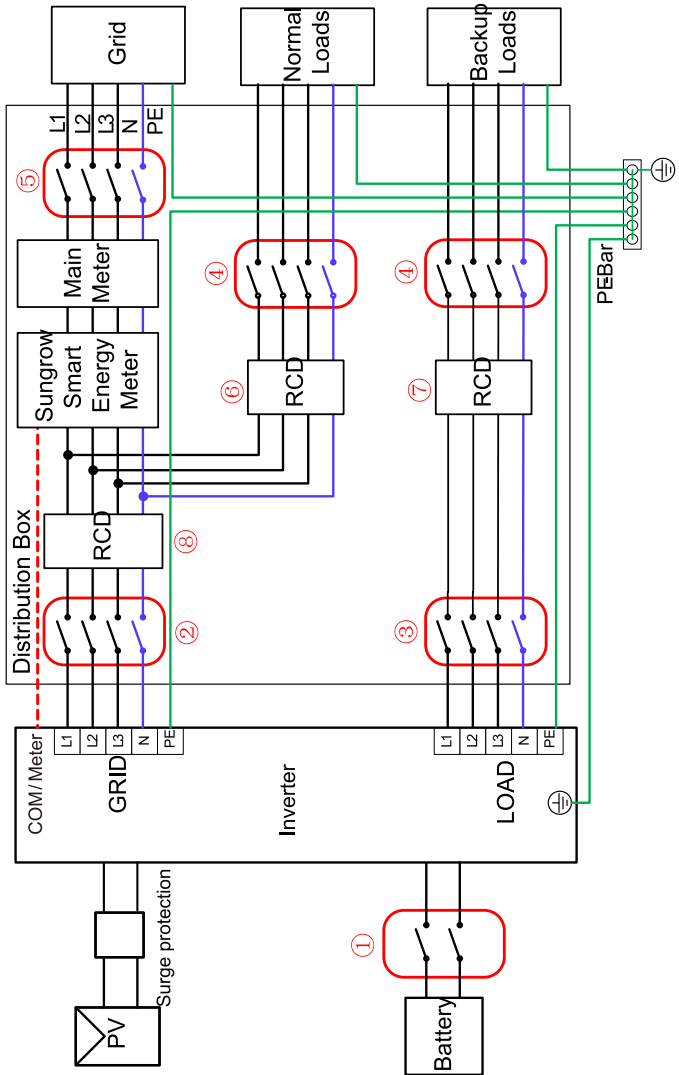
Backup Wiring Diagram (For Other Countries)

Loads Connected to the Grid :

Model	①	②	③	④	⑤	⑥	⑦
SH5/6T		25A/400V AC breaker	25A/400V AC breaker				
SH8/10/12T	63A/800V DC breaker *	32A/400V AC breaker	32A/400V AC breaker				
SH15T		40A/400V AC breaker	40A/400V AC breaker				
SH20/25T		63A/400V AC breaker	63A/400V AC breaker				

Note: * If the battery is integrated with a readily accessible internal DC breaker, no additional DC breaker is required.

Note: The values in the table are recommended values and can be set to other values according to actual conditions.



Backup Wiring Diagram (For Other Countries)

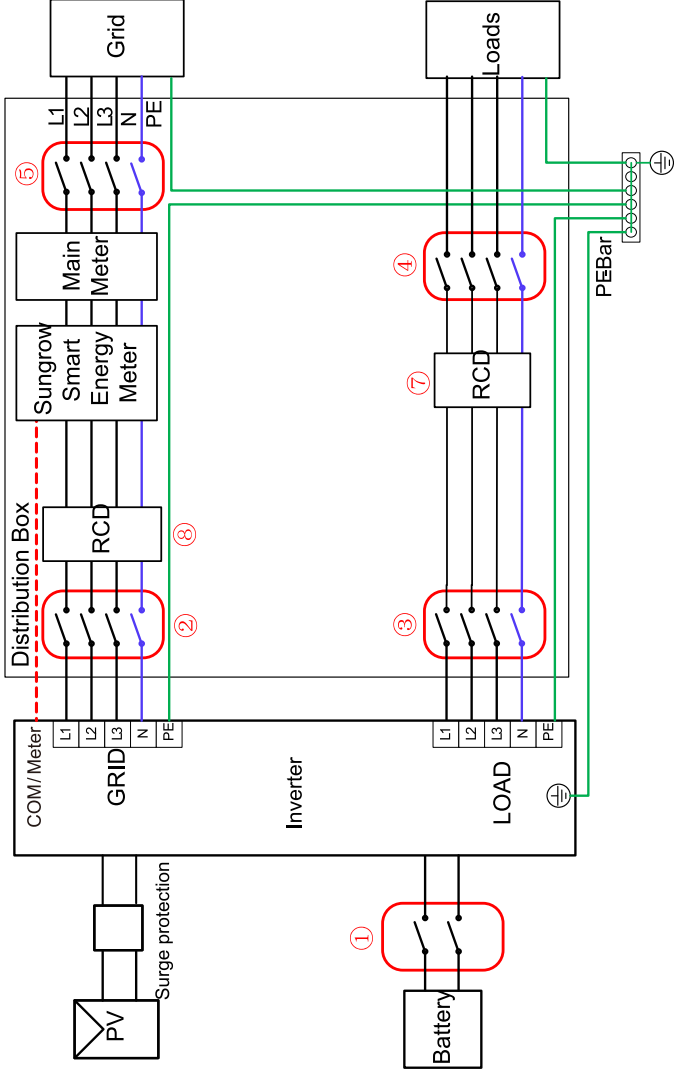
Loads Connected to the Inverter:

Model	①	②	③	④	⑤	⑥	⑦
SH5/6T		25A/400V AC breaker	25A/400V AC breaker				
SH8/10/12T	63A/800V DC breaker *	32A/400V AC breaker	32A/400V AC breaker				
SH15T		40A/400V AC breaker	40A/400V AC breaker				
SH20/25T		63A/400V AC breaker	63A/400V AC breaker				

Depends on household loads and inverter capacity

30mA RCD (Comply with local regulation)

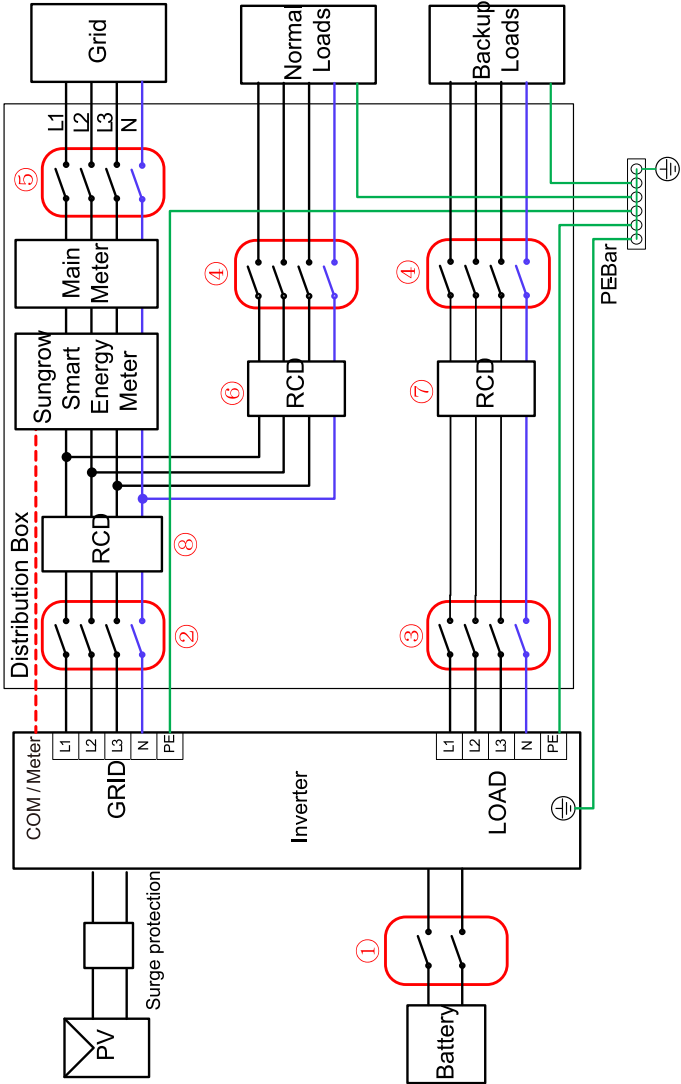
Note: * If the battery is integrated with a readily accessible internal DC breaker, no additional DC breaker is required.
Note: The values in the table are recommended values and can be set to other values according to actual conditions.



Backup Wiring Diagram (For TT system) Loads Connected to the Grid:

Model	①	②	③	④	⑤	⑥	⑦
SH5/6T		25A/400V AC breaker	25A/400V AC breaker				
SH8/10/12T		32A/400V AC breaker	32A/400V AC breaker				
SH15T	63A/800V DC breaker *	40A/400V AC breaker	40A/400V AC breaker	Depends on loads	Depends on household loads and inverter capacity		30mA RCD (Comply with local regulation)
SH20/25T		63A/400V AC breaker	63A/400V AC breaker				

Note: * If the battery is integrated with a readily accessible internal DC breaker, no additional DC breaker is required.
Note: The values in the table are recommended values and can be set to other values according to actual conditions.



Backup Wiring Diagram (For TT system)

Loads Connected to the Inverter :

Model	①	②	③	④	⑤	⑥	⑦
SH5/6T		25A/400V AC breaker	25A/400V AC breaker				
SH8/10/12T		32A/400V AC breaker	32A/400V AC breaker				
SH15T		63A/800V DC breaker *	40A/400V AC breaker				
SH20/25T		63A/400V AC breaker	63A/400V AC breaker				

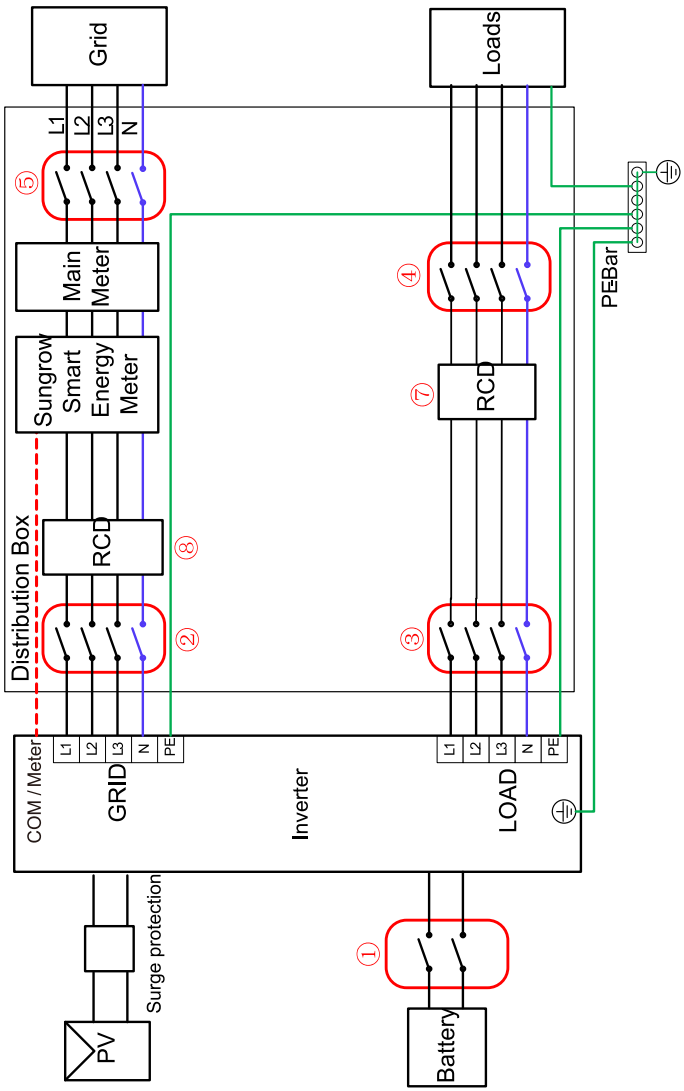
Depends on household loads and inverter capacity

Depends on loads

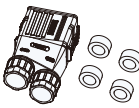
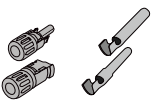
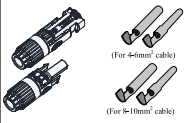
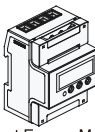
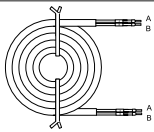
30mA RCD (Comply with local regulation)

Note: * If the battery is integrated with a readily accessible internal DC breaker, no additional DC breaker is required.

Note: The values in the table are recommended values and can be set to other values according to actual conditions.

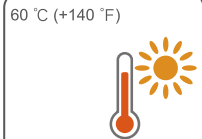
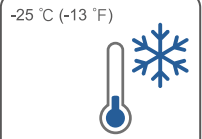
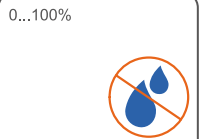
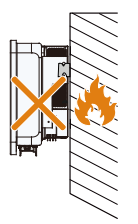
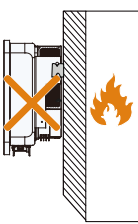
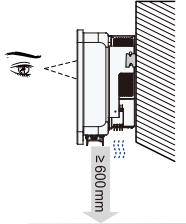
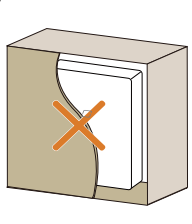


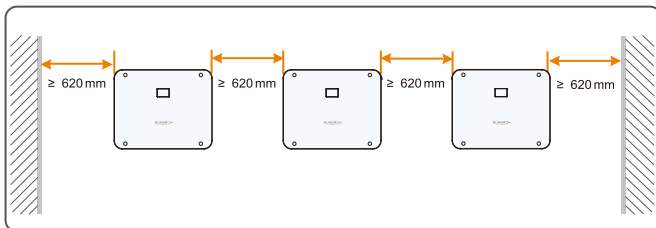
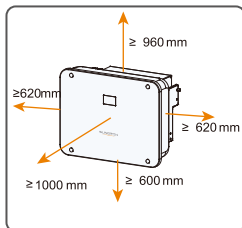
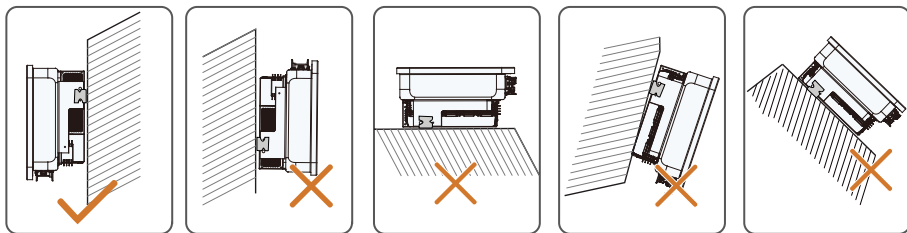
Scope of Delivery / Lieferumfang / Contenuto della fornitura / Contenu de la livraison /
 Leveringsomvang / Zakres dostawy / Contenido suministrado / Âmbito
 de entrega / Leveransens innehåll

			
Inverter	Wall-mounting bracket *	Expansion plug set x 4	M5x12 screw set x 2
			
COM2 connector set x 1	COM1 connector set x 1	AC connector set x 1	PV connectorx5
			
OT terminal *	Battery connector* x 1	Cord end terminal *	WiNet-S2 module
			
Smart Energy Meter	Current Transformer(CT)x1	RS485 cable	Bottom bracket
			
Documents			

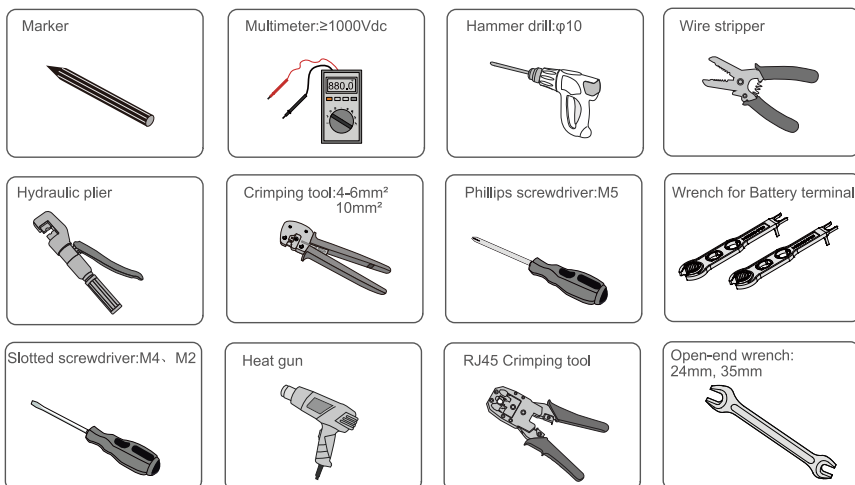
* The images shown here are for reference. The actual product and quantity are based on delivery.

Mounting location / Montageort / Luogo di montaggio / Lieu de montage / Montagelocatie /
 Miejsce montaży / Ubicación del montaje / Localização na
 parede / Monteringsplats

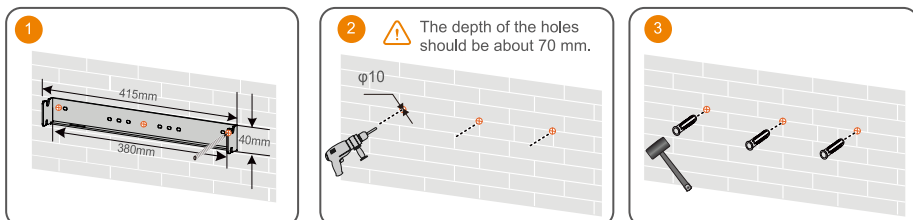
			
			

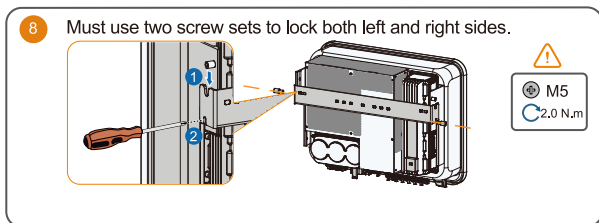
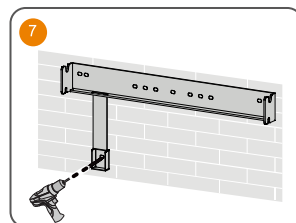
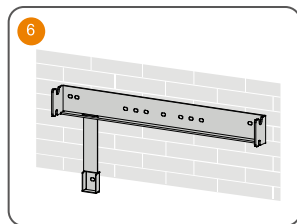
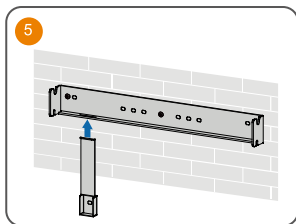
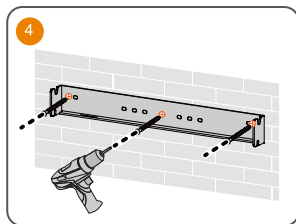


Installation tools / Werkzeug zur Installation / Strumenti di installazione / Outils d'installation / Montagegereedschap / Narzędzia montażowe / Herramientas de instalación / Ferramentas de instalação / Installationsverktøy

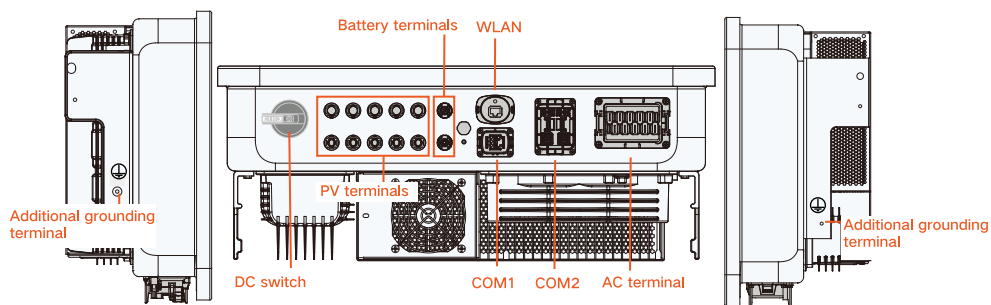


Mounting / Montage / Montaggio / Montage / Montage / Montaż / Montaje / Montagem / Montering

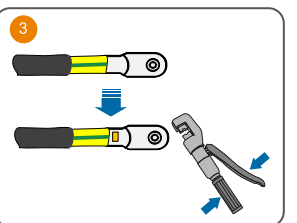
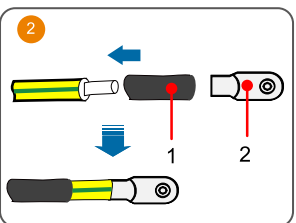
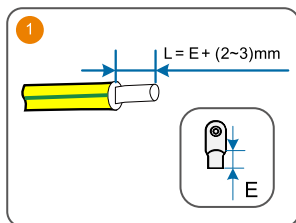


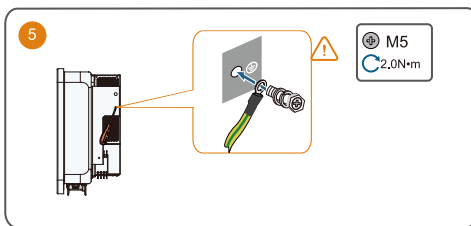
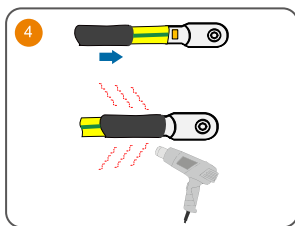


Terminal Description



PE / Erdung / messa a terra / Mise à la terre / Aarding / PE / PE / EP / Skyddsjord

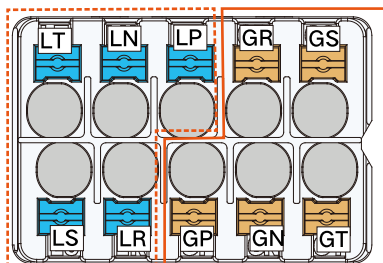




- The cable specification must comply with local regulations (if available). Otherwise, keep it consistent with the PE wire in the AC cable.

AC

Load



Grid

AC Cable

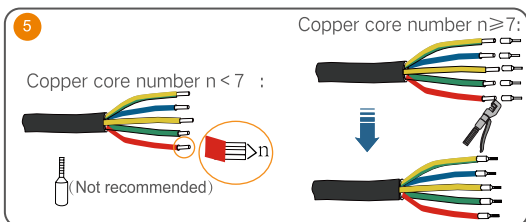
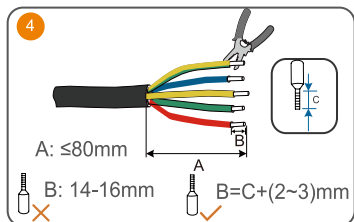
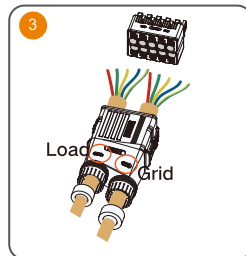
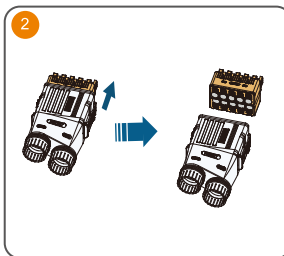
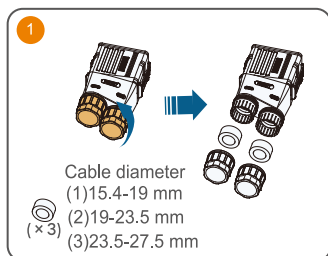
SH5-12T: 14.4-23mm
SH15-25T: 21-27.5mm



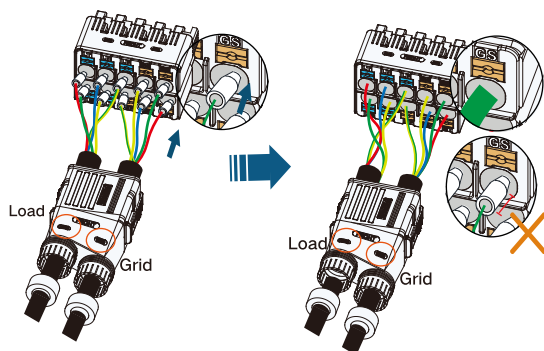
Cross section:

SH5-12T: 6-10mm²(10-7AWG)

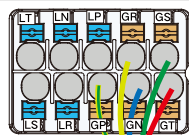
SH15-25T: 10-16mm²(7-5AWG)



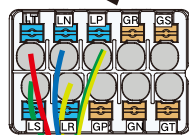
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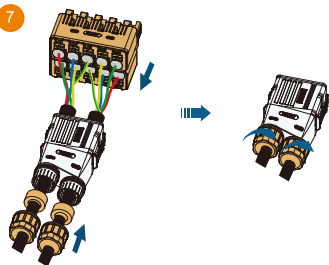
Grid



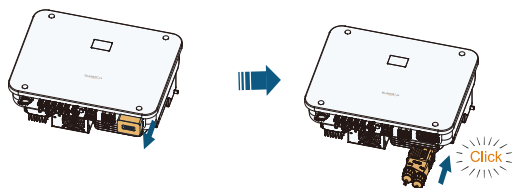
Load



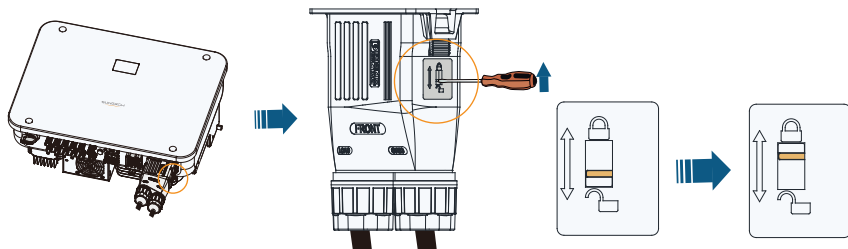
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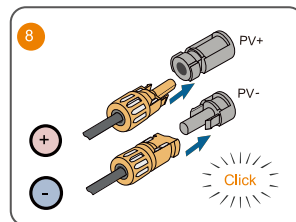
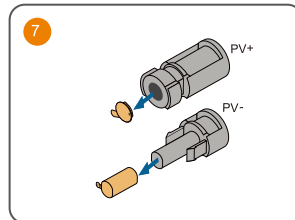
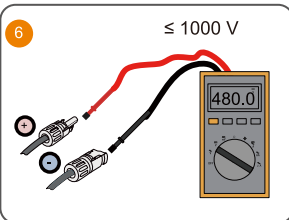
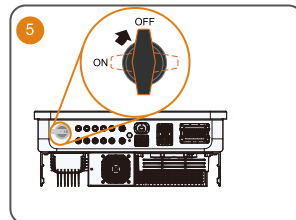
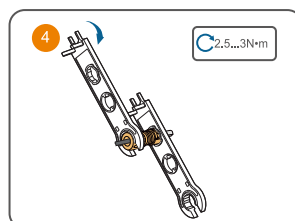
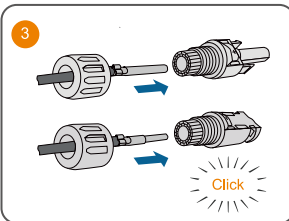
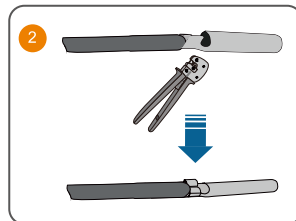
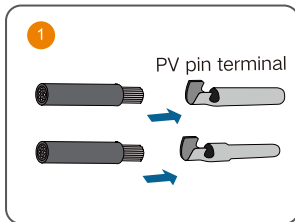
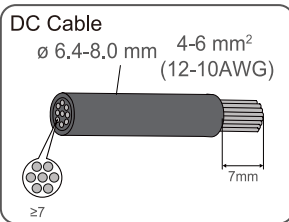
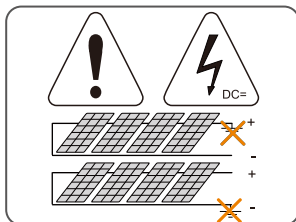
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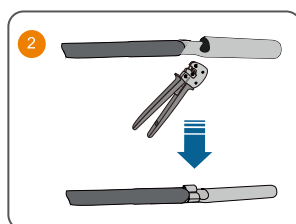
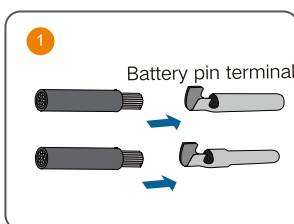
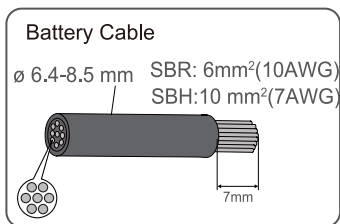
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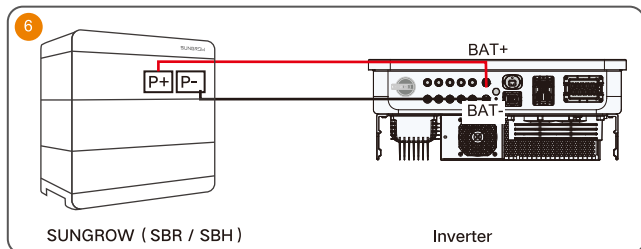
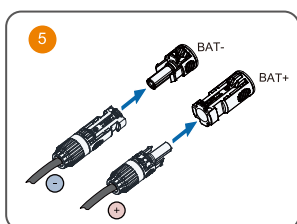
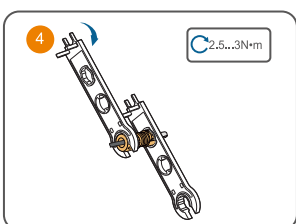
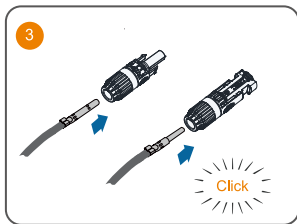


DC



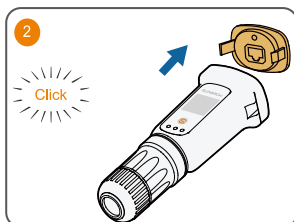
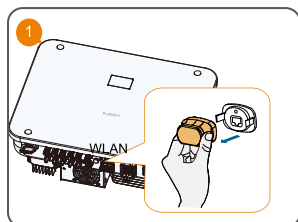
Battery (Power)



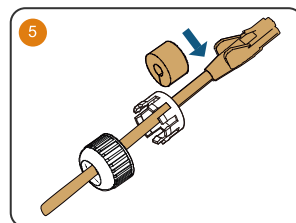
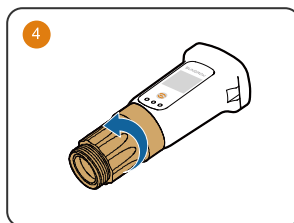
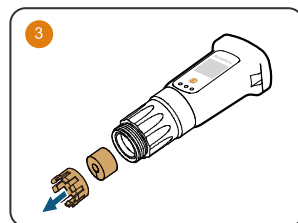
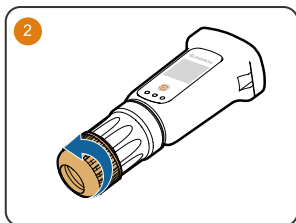
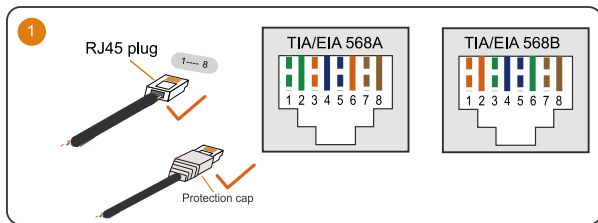


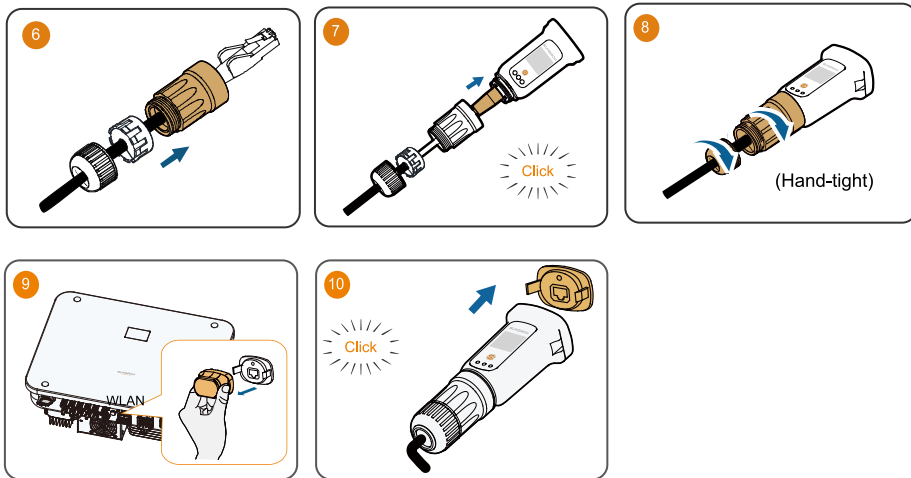
WiNet-S2

- Installation with WLAN communication

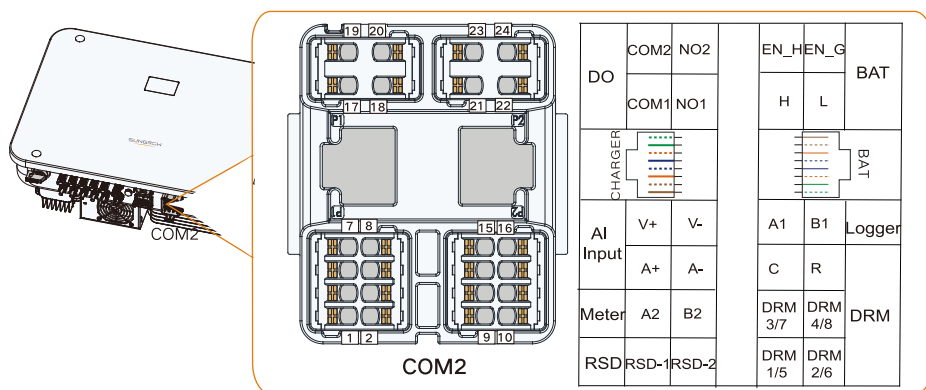


Ethernet





COM2 Terminal Communication Connection



Label	Description
DO	DO (COM1, NO1):Grounding fault/alarm DO (COM2, NO2):Diesel generator start/stop
AI Input	Reserved
Meter(A2,B2)	Connect to the Smart Energy Meter.(If installing a single inverter or if installing the master inverter in a string of parallel inverters.)
RSD(RSD-1,RSD-2)	Reserved
BAT	BAT (EN_H, EN_G):Enable the battery with a voltage of 12V. BAT (H, L):To enable the communication between the inverter and the Li-ion battery
Logger(A1,B1)	Connect to the Logger, so as to implement data exchange with PC or other monitoring devices.
DRM	"AU"/"NZ": Demand response enabling device (DRED) "IT": interface protection system (SPI) "DE": Ripple Control Receiver (RCR)

Label	Description
RJ45-Charger(A3,B3)	RJ45 port for communication between the inverter and the EV charger
RJ45-BAT(EN_H,EN_G)	RJ45 port for communication between the inverter and the battery

Communication Cable

Single-strand wire:

Ø 5-6.4 mm 2*(0.5-1.0) mm²(20-17AWG)

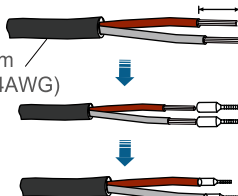


(Not recommended)

Multi-core multi-strand wire:

12-14mm

Ø 5-6.4 mm
8*0.2mm²(24AWG)



Smart Energy Meter Connection :

