

QUICK INSTALLATION GUIDE



GT3-75~125KW
GT3-36~75KW-L
GT3-100~150KW-M

Copy Declaration

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The manual is intended for photovoltaic (PV) inverter operating personnel and qualified electrical technicians. Any electrical installation and maintenance on this inverter must be performed by qualified electricians by professional electrical personnel who has obtained the license from local authorities.

Read the manual and other related documents before performing any operation on the inverter. Documents must be stored carefully and be available at all times. The information in this manual is subject to change without notice. Please check www.livoltek.com for more information.

Safety

LIVOLTEK GT3 Series grid-tied inverter, ideal for business and remote locations. The inverter generates renewable electricity from solar energy, and provides Pure Sine Wave AC output for connected equipment.

Please read and follow all the instructions and cautions on the inverter and this user manual during installation, operation or maintenance at all times.

Personnel Safety

- The inverter must be installed, electrically connected, operated and maintained by specially trained technician.
- The qualified technician must be familiar with the safety regulations of electrical system, working process of PV power generation system, and standards of local power grid.
- The technician must read through this User Manual carefully before any operations.

Inverter Protection

WARNING

Do not disconnect the PV connectors when the inverter is running.

Ensure that there is no voltage or current before installing or disconnecting any connectors.

All safety instructions, warning labels, and nameplate on the inverter should not be removed or covered.

WARNING

When the photovoltaic array is exposed to light, it supplies a dc voltage to this equipment.

CAUTION

Do not touch any hot parts (such as the heat sink) during operation.

CAUTION

Hot surfaces – To reduce the risk of burns – Do not touch.















"Do not remove cover until 5 minutes after disconnecting all sources of supply."

NOTICE

As soon as receiving the inverter please check if it is damaged during its transportation. If yes, please contact your dealer immediately. Only qualified personnel can change the country settings.

- Adequate ventilation must be provided for inverter installation location.
- Mount the inverter in vertical direction, and ensure that no objects block the heat dissipation.

Symbol on the Type Label

Symbol	Explanation
	CE mark. The inverter complies with the requirements of the applicable CE guild lines.
	UKCA mark. The inverter complies with the requirements of the applicable UKCA guild lines.
	UKNI mark. The inverter complies with the requirements of the applicable UKNI guild lines.
	Direct Current (DC)
	Alternating Current (AC)
	Point of connection for grounding protection
	RCM remark.
	SAA certification.
	Beware of hot surface. The inverter can become hot during operation. Avoid contact during operation.
	Danger of high voltages Danger to life due to high voltages in the inverter!
	Danger. Risk of electric shock!
	Observe enclosed documentation.
	The inverter can not be disposed together with the household waste. Disposal information can be found in the enclosed documentation.
	Danger to life due to high voltage. There is residual voltage in the inverter which needs 5 min to discharge. Wait 5 min before you open the upper lid or the DC lid.



Users could scan the QR code below to view the material (User Manual, Installation Guide Video .etc) on this series of inverter.



Scan the QR code with mobile phone

Este manual está dirigido al personal de operación del inversor fotovoltaico (FV) y a técnicos electricistas cualificados. Cualquier instalación eléctrica y mantenimiento de este inversor debe ser realizado por electricistas cualificados por personal eléctrico profesional que haya obtenido la licencia de las autoridades locales.

Lea el manual y otros documentos relacionados antes de realizar cualquier operación en el inversor. Los documentos deben guardarse con cuidado y estar disponibles en todo momento. La información de este manual está sujeta a cambios sin previo aviso. Consulte www.livoltek.com para obtener más información.

Seguridad

Inversor de red LIVOLTEK Serie GT3, ideal para hogares, empresas y lugares remotos. El inversor genera electricidad renovable a partir de energía solar y proporciona una salida de CA de onda sinusoidal pura para los equipos conectados.

Lea y siga en todo momento todas las instrucciones y precauciones del inversor y de este manual del usuario durante la instalación, el funcionamiento o el mantenimiento.

Seguridad del personal

- El inversor debe ser instalado, conectado eléctricamente, operado y mantenido por un técnico especialmente formado.
- El técnico cualificado debe estar familiarizado con las normas de seguridad del sistema eléctrico, el proceso de funcionamiento del sistema de generación de energía fotovoltaica y las normas de la red eléctrica local.
- El técnico debe leer detenidamente este Manual del usuario antes de realizar cualquier operación.

Protección de inversor

WARNING

No desconecte los conectores FV cuando el inversor esté en funcionamiento. Asegúrese de que no haya tensión ni corriente antes de instalar o desconectar cualquier conector. Todas las instrucciones de seguridad, las etiquetas de advertencia y la placa de características del inversor no deben retirarse ni cubrirse.

WARNING

Cuando el conjunto fotovoltaico se expone a la luz, suministra una tensión continua a este equipo.

CAUTION

No toque ninguna pieza caliente (como el disipador de calor) durante el funcionamiento.

CAUTION

Superficies calientes - Para reducir el riesgo de quemaduras - No tocar.
"No retire la cubierta hasta 5 minutos después de desconectar todas las fuentes de alimentación".

NOTICE

En cuanto reciba el inversor, compruebe si ha sufrido daños durante el transporte. En caso afirmativo, póngase en contacto con su distribuidor inmediatamente. Sólo el personal cualificado puede cambiar la configuración del país.

- El lugar de instalación del inversor debe disponer de ventilación adecuada.
- Monte el inversor en posición vertical y asegúrese de que ningún objeto bloquee la disipación del calor.

Símbolo en la etiqueta de tipo

símbolo	Explicación
	Marca CE. El inversor cumple los requisitos de las líneas aplicables del gremio CE.
	Marca UKCA. El inversor cumple los requisitos de las líneas gremiales UKCA aplicables.
	Marca UKNI. El inversor cumple los requisitos de las líneas gremiales UKNI aplicables.
	Corriente continua (CC)
	Corriente alterna (CA)
	Punto de conexión para la protección de puesta a tierra.
	Observación RCM.
	Certificación SAA.
	Cuidado con las superficies calientes. El inversor puede calentarse durante el funcionamiento. Evite el contacto durante la operación.
	Peligro por alta tensión Peligro de muerte por alta tensión en el inversor.
	Peligro. Riesgo de descarga eléctrica.
	Observe la documentación adjunta.
	El inversor no puede eliminarse junto con la basura doméstica. La información sobre la eliminación se puede encontrar en la documentación adjunta.
	Peligro de muerte debido a la alta tensión. Hay tensión residual en el inversor que necesita 5 min para descargarse. Espere 5 min antes de abrir la tapa superior o la tapa de CC.



Los usuarios pueden escanear el siguiente código QR para ver el material (manual del usuario, vídeo de guía de instalación, etc.) de esta serie de inversores.



Scan the QR code with mobile phone

O manual destina-se a operadores de inversores fotovoltaicos (FV) e técnicos elétricos qualificados. Qualquer instalação elétrica e manutenção neste inversor devem ser realizadas por eletricitistas qualificados, por pessoas profissional que tenha obtido licença das autoridades locais.

Leia o manual e outros documentos relacionados antes de realizar qualquer operação no inversor. Os documentos devem ser armazenados cuidadosamente e estar disponíveis o tempo todo. As informações neste manual estão sujeitas a alterações sem aviso prévio. Consulte www.livoltek.com para obter mais informações.

Segurança

O inversor on-grid da série LIVOLTEK GT3, ideal para residências, negócios e locais remotos. O inversor gera eletricidade renovável a partir de energia solar e fornece saída CA de onda senoidal pura para os equipamentos conectados.

Por favor, leia e siga todas as instruções e precauções no inversor e neste manual do usuário durante a instalação, operação ou manutenção em todos os momentos.

Segurança pessoal

- O inversor deve ser instalado, conectado eletricamente, operado e mantido por um técnico especialmente treinado.
- O técnico qualificado deve estar familiarizado com os regulamentos de segurança do sistema elétrico, o processo de trabalho do sistema de geração de energia solar fotovoltaica e os padrões da rede elétrica local.
- O técnico deve ler cuidadosamente este Manual do Usuário antes de realizar qualquer operação.

Proteção do Inversor

WARNING

Não desconectar os conectores fotovoltaico enquanto o inversor estiver em funcionamento. Certifique-se de que não haja tensão ou corrente antes de instalar ou desconectar quaisquer conectores.

Todas as instruções de segurança, etiquetas de advertência e placa de identificação no inversor não devem ser removidas ou cobertas.

WARNING

Quando o conjunto fotovoltaico está exposto à luz, ele fornece uma tensão contínua a este equipamento.

CAUTION

Não toque em partes quentes (como o dissipador de calor) durante a operação.

CAUTION















Superfícies quentes - Para reduzir o risco de queimaduras - Não toque.
Não remova a tampa até 5 minutos após desconectar todas as fontes de alimentação.

NOTICE

Assim que receber o inversor, verifique se houve danos durante o transporte. Em caso afirmativo, entre imediatamente em contato com o seu revendedor. Apenas pessoal qualificado pode alterar as configurações do país.

- Deve ser providenciada ventilação adequada para o local de instalação do inversor. Monte o inversor na direção vertical e certifique-se de que nenhum objeto bloqueie a dissipação de calor.

Símbolo na Etiqueta de Tipo

símbolo	Explicación
	Marca CE. O inversor está em conformidade com os requisitos das diretrizes CE aplicáveis.
	Marca UKCA. O inversor está em conformidade com os requisitos das diretrizes UKCA aplicáveis.
	Marca UKNI. O inversor está em conformidade com os requisitos das diretrizes UKNI aplicáveis.
	Corrente Contínua (CC)
	Corrente Alternada (CA)
	Ponto de conexão para proteção de aterramento.
	Observação RCM.
	A certificação SAA.
	Cuidado com a superfície quente. O inversor pode ficar quente durante a operação. Evite o contato durante o funcionamento.
	Perigo de altas tensões Perigo para a vida devido a altas tensões no inversor!
	Perigo. Risco de choque elétrico!
	Observe a documentação anexa.
	O inversor não pode ser eliminado juntamente com o lixo doméstico. As informações sobre descarte podem ser encontradas na documentação anexa.
	Perigo de vida devido a alta tensão. Há tensão residual no inversor que precisa de 5 minutos para descarregar. Aguarde 5 minutos antes de abrir a tampa superior ou a tampa CC.



Os usuários podem escanear o código QR abaixo para visualizar o material (Manual do Usuário, Vídeo Guia de Instalação etc.) sobre esta série de inversores.



Scan the QR code with mobile phone

Le manuel est destiné aux opérateurs d'onduleurs photovoltaïques (PV) et aux techniciens électriciens qualifiés. Toute installation et maintenance électriques sur cet onduleur doivent être effectués par des électriciens qualifiés par du personnel électrique professionnel ayant obtenu la licence des autorités locales.

Avant d'effectuer toute opération sur l'onduleur, veuillez lire le manuel et d'autres documents pertinents. Les documents doivent être soigneusement conservés et disponibles à tout moment. Les informations contenues dans ce manuel sont susceptibles d'être modifiées sans préavis. Veuillez consulter www.livoltek.com pour plus d'informations.

Sécurité

LIVOLTEK série GT3 onduleur sur réseau est idéal pour les maisons, les entreprises et les régions éloignées. L'onduleur génère de l'électricité renouvelable à partir de l'énergie solaire et fournit une sortie CA à onde sinusoïdale pure pour les équipements connectés.

Veuillez lire et suivre à tout moment toutes les instructions et mises en garde figurant sur l'onduleur et ce manuel d'utilisation pendant l'installation, le fonctionnement ou la maintenance.

Sécurité du personnel

- L'onduleur doit être installé, connecté électriquement, utilisé et entretenu par un technicien spécialement formé.
- Le technicien qualifié doit connaître les règles de sécurité du système électrique, le processus de fonctionnement du système de production d'énergie photovoltaïque et les normes du réseau électrique local.
- Avant toute opération, le technicien doit lire attentivement ce manuel d'utilisation

Protection de l'onduleur

WARNING

Ne débranchez pas les connecteurs PV lorsque l'onduleur est en marche. Assurez-vous qu'il n'y a ni tension ni courant avant d'installer ou de débrancher des connecteurs. Toutes les instructions de sécurité, étiquettes d'avertissement et plaque signalétique sur l'onduleur ne doivent pas être retirées ou couvertes.

WARNING

Lorsque le panneau photovoltaïque est exposé à la lumière, il fournit une tension continue à cet équipement.

CAUTION

Ne touchez aucune pièce chaude (telle que le dissipateur thermique) pendant le fonctionnement.

CAUTION















Surfaces chaudes – Pour réduire les risques de brûlures – Ne pas toucher.
"Ne retirez le couvercle que 5 minutes après avoir débranché toutes les sources d'alimentation."

NOTICE

Dès réception de l'onduleur, veuillez vérifier s'il est endommagé pendant son transport. Si oui, contactez immédiatement votre distributeur. Seul un personnel qualifié peut modifier les paramètres du pays.

- Une ventilation adéquate doit être prévue pour l'emplacement d'installation de l'onduleur.
- Montez l'onduleur dans le sens vertical et assurez-vous qu'aucun objet ne bloque la dissipation thermique.

Symbole sur l'étiquette de type

símbolo	Explicación
	Marquage CE. Les onduleurs sont conformes aux exigences des directives CE applicables.
	Marquage UKCA. L'onduleur est conforme aux exigences des lignes de guide UKCA applicables.
	Marquage UKNI. L'onduleur est conforme aux exigences des lignes de guide UKNI applicables.
	Courant Continu
	Courant alternatif
	Point de connexion pour la protection de mise à la terre.
	RCM Remarque.
	SAA Certification.
	Attention aux surfaces chaudes. L'onduleur peut devenir chaud pendant le fonctionnement. Évitez tout contact pendant le fonctionnement.
	Danger de hautes tensions Danger de mort dû à des tensions élevées dans l'onduleur!
	Danger. Risque de choc électrique!
	Respecter les documents annexés.
	L'onduleur ne peut pas être éliminé avec les ordures ménagères. Les informations sur l'élimination peuvent être trouvées dans la documentation annexée.
	Danger de mort dû à la tension élevée. Il y a une tension résiduelle dans l'onduleur qui a besoin de 5 minutes pour se décharger. Attendez 5 minutes avant d'ouvrir le capot supérieur ou le capot DC.



Les utilisateurs peuvent scanner le code QR ci-dessous pour visualiser les documents (manuel d'utilisation, vidéo du guide d'installation, etc.) sur cette série d'onduleurs.



Instrukcja jest przeznaczona dla osób obsługujących falowniki fotowoltaiczne (PV) i wykwalifikowanych elektrotechników. Wszelkie czynności związane z instalacją elektryczną i konserwacją falownika muszą być wykonywane przez wykwalifikowanych specjalistów, którzy uzyskali licencję wydawaną przez lokalne władze.

Przed wykonaniem jakiegokolwiek działania z falownikiem należy zapoznać się z instrukcją i innymi powiązаныmi dokumentami. Dokumenty muszą być starannie przechowywane i zawsze dostępne. Informacje zawarte w niniejszej instrukcji mogą ulec zmianie bez powiadomienia. Prosimy o sprawdzenie strony www.livoltek.com w celu uzyskania dodatkowych informacji.

Sécurité

Falownik sieciowy LIVOLTEK serii GT3, idealne rozwiązanie dla domu, firmy i odległych lokalizacji. Falownik generuje odnawialną energię elektryczną z energii słonecznej i zapewnia wyjście prądu AC w postaci czystej fali sinusoidalnej dla podłączonych urządzeń.

Podczas instalacji, obsługi lub konserwacji należy zawsze przeczytać i przestrzegać wszystkich wskazań i ostrzeżeń umieszczonych na samym falowniku oraz w niniejszej instrukcji obsługi.

Bezpieczeństwo pracowników

- Falownik musi być zainstalowany, podłączony do sieci elektrycznej, obsługiwany i konserwowany przez specjalnie przeszkolonego technika.
- Wykwalifikowany technik musi znać przepisy bezpieczeństwa instalacji elektrycznej, zasady działania systemu wytwarzania energii fotowoltaicznej oraz normy lokalnej sieci energetycznej.
- Przed przystąpieniem do jakichkolwiek czynności technik musi dokładnie zapoznać się z niniejszą instrukcją obsługi.

Zabezpieczenie falownika

WARNING

Nie odłączaj złączy instalacji fotowoltaicznej, gdy falownik pracuje.

Przed zainstalowaniem lub odłączeniem jakichkolwiek złączy należy upewnić się, że nie ma napięcia lub prądu.

Wszystkie instrukcje bezpieczeństwa, etykiety ostrzegawcze i tabliczka znamionowa na falowniku nie powinny być usuwane ani zakrywane

WARNING

Gdy układ fotowoltaiczny jest wystawiony na działanie światła, dostarcza napięcie stałe do tego urządzenia.

CAUTION

Podczas pracy nie należy dotykać żadnych gorących części (takich jak radiator).

CAUTION

Gorące powierzchnie - Aby zmniejszyć ryzyko poparzenia - Nie dotykaj.















"Nie zdejmować pokrywy przed upływem 5 minut od odłączenia wszystkich źródeł zasilania."

NOTICE

Po otrzymaniu falownika należy sprawdzić, czy nie został on uszkodzony podczas transportu. Jeśli tak, należy natychmiast skontaktować się ze sprzedawcą. Tylko wykwalifikowany personel może zmienić ustawienia krajowe.

- Należy zapewnić odpowiednią wentylację w miejscu instalacji falownika.
- Falownik należy zamontować pionowo i upewnić się, że żadne przedmioty nie blokują odprowadzania ciepła.

Symbol na tabliczce znamionowej

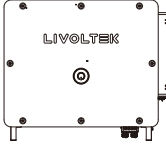
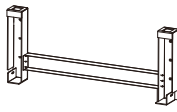



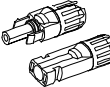
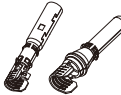



símbolo	Explicación
	Oznakowanie CE. Falownik spełnia wymagania obowiązujących wytycznych CE.
	Oznakowanie UKCA. Falownik spełnia wymagania norm UKCA
	Oznakowanie UKNI. Falownik spełnia wymagania norm UKNI.
	Prąd stały (DC)
	Prąd zmienny (AC)
	Punkt połączenia dla zabezpieczenia uziemienia.
	Uwaga RCM
	Certyfikat SAA.
	Uważać na gorące powierzchnie. Falownik może nagrzewać się podczas pracy. Należy unikać kontaktu podczas pracy.
	Zagrożenie wysokim napięciem Zagrożenie życia z powodu wysokiego napięcia w falowniku!
	Uwaga! Możliwość porażenia prądem elektrycznym
	Należy przestrzegać załączonej dokumentacji.
	Falownika nie można utylizować razem z odpadami domowymi. Informacje dotyczące utylizacji można znaleźć w załączonej dokumentacji.
	Zagrożenie życia z powodu wysokiego napięcia. W falowniku obecne jest napięcie szczytowe! Przed otwarciem falownika należy odczekać pięć minut, aby upewnić się, że kondensator został całkowicie rozładowany



Użytkownicy mogą zeskanować zamieszczony poniżej kod QR, aby wyświetlić informacje na temat tej serii falowników (instrukcję obsługi, film instruktażowy itp.).















Packing List /Lista de embalagem/ Liste de colisage/Lista de embalaje /Lista di imballaggio/Paklijst

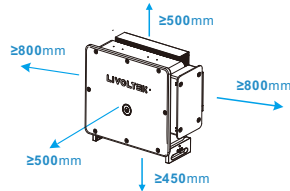
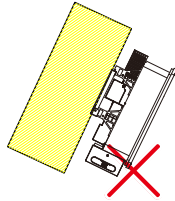
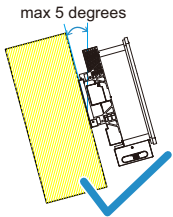
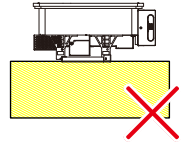
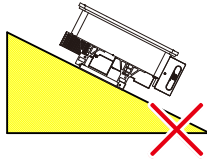
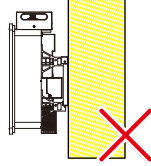
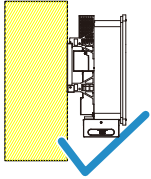
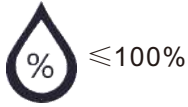
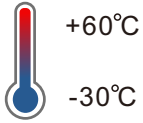
 <p>Inverter *1</p>	 <p>Bracket *1</p>	 <p>Expansion Screws *6</p>	
 <p>M5 Screws *2</p>	 <p>OT Terminal *7</p>	 <p>PV Terminal *20 pairs</p>	 <p>PV Pin Angle *20 pairs</p>
 <p>Cold-pressed Terminal *24</p>	 <p>Wi-Fi Logger *1</p>	 <p>Quick Installation Guide *1 Certification *1</p>	

Note: The images shown here are for reference. The actual quantity is based on delivery.

Installation Tools/Ferramentas de instalação/Outils d'installation /Herramientas para la instalación/Strumenti di installazione/Installatie Gereedschap

 <p>Bit Φ 10 Hammer drill</p>	 <p>Hammer</p>	 <p>Tape ruler</p>	 <p>Phillips screwdriver Straight screwdriver</p>
 <p>Protective glasses</p>	 <p>Hydraulic tensioner</p>	 <p>OT terminals press clamp</p>	 <p>Wire stripper</p>
 <p>DC Voltage (Range \geq 1100V DC) Multimeter</p>	 <p>Euro terminal crimping tool</p>	 <p>Diagonal pliers</p>	 <p>Spirit level Marker</p>

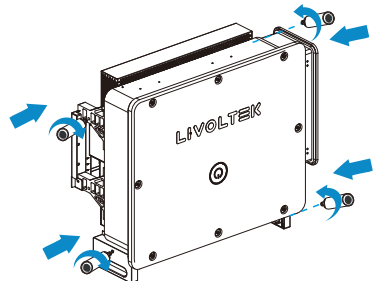
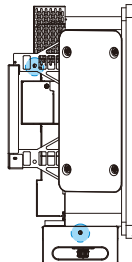
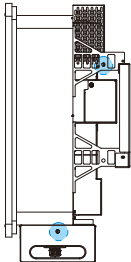
**Mounting Location/Local de montagem/Emplacement de montage
/Ubicación de montaje/Posizione di montaggio/Montagelocatie**



**Taking out and Moving the Inverter/Retirando e Movendo o Inversor/
Retrait et déplacement de l'onduleur/Cómo sacar y mover el inversor/
Estrazione e spostamento dell'inverter/De omvormer verwijderen
en verplaatsen**

Carefully lift the inverter from the packaging box (it is recommended to arrange personnel to carry it according to the weight of the inverter), and install the four screw-in handles after lifting the inverter. Then use the bottom handle and the four installed handles to move the inverter to the installation location.

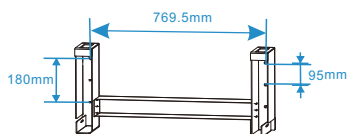
Note: The inverter is heavy, please handle it with care.



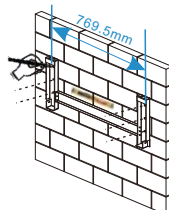
1. Wall-Mounted Installation

Spare parts

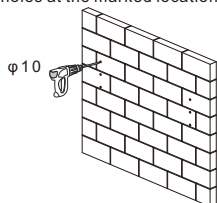
Item	Quantity	Source
Bracket	1	Delivery Scope
Self-tapping screw	6	Delivery Scope
Bolt assembly	6	Delivery Scope



- 1** Use a spirit level to ensure the bracket is level

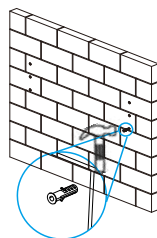


- 2** Drill holes at the marked locations

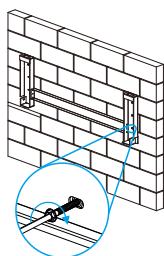


- 3**

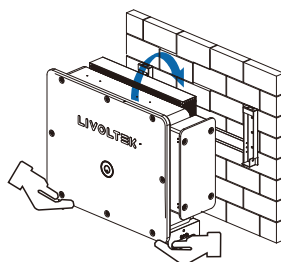
Use a hammer to hammer the expansion screws into the holes



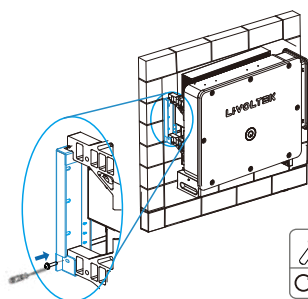
- 4** Pass the screws through the bracket and tighten them to fix the bracket to the wall



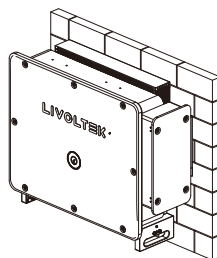
- 5** Hang the inverter on the installed bracket





- 6** Fasten a screw on the left and right sides of the bracket to fix the inverter



- 7**



 M5*2
 C 3.5-4N.m

2. Installed on the PV bracket (under the PV modules)

Spare parts

Item	Quantity	Source
Bracket	1	Delivery Scope
Self-tapping screw	6	Delivery Scope
Bolt assembly	6	Delivery Scope
PV bracket	1	Self-prepared
Self-tapping screw	4	Self-prepared

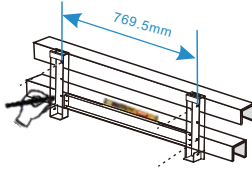
Notice:

Materials marked "Self-prepared" in the material table, you should prepare them yourself and select appropriate specifications according to the actual installation situation.

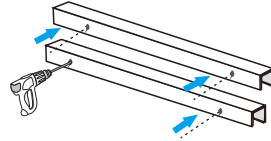
In addition to the standard inverter bracket, other brackets need to be considered to be compatible with it in order to install the inverter bracket.

- 1** Place the inverter mounting bracket on the PV brackets and use a level to ensure the bracket is level.

⚠ Before installation, make sure the PV bracket can support the weight of the inverter.

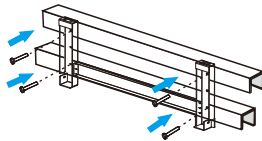


- 2** Drill holes on the PV brackets at the marked locations

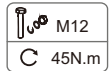
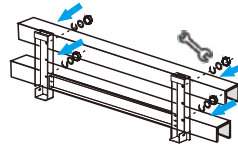


Note: If the PV bracket has holes suitable for installing the inverter bracket, this step can be skipped.

- 3** Insert the bolts into the drilled holes



- 4** Use a wrench to tighten the nuts, and fix the bracket on the PV brackets.



3. Mounted on the Pole

Spare parts

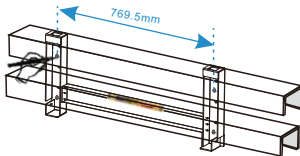
Item	Quantity	Source
Bracket	1	Delivery Scope
Self-tapping screw	6	Delivery Scope
Bolt assembly	6	Delivery Scope
U-beam	2	Self-prepared
U-shaped hoop	2	Self-prepared
Nut assembly	4	Self-prepared

Notice:

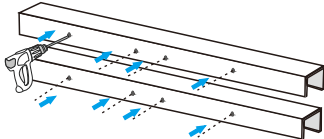
Materials marked "Self-prepared" in the material table, you should prepare them yourself and select appropriate specifications according to the actual installation situation.

In addition to the standard inverter bracket, other brackets need to be considered to be compatible with it in order to install the inverter bracket.

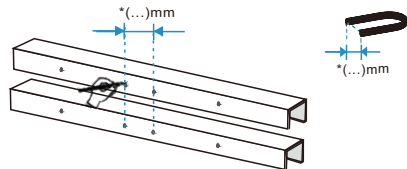
- 1** Use a marker to mark the holes and use a level to ensure the bracket is level



- 3** Drill holes at the marked locations

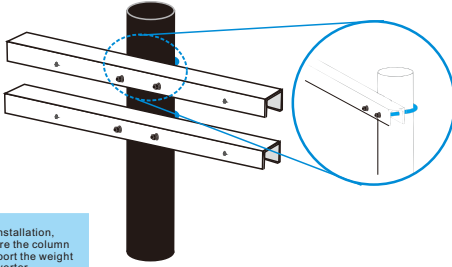


- 2** Mark the holes according to the size of the U-shaped hoop



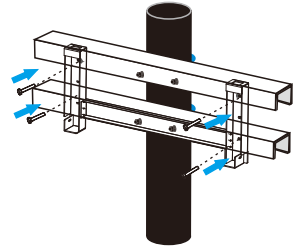
*Select the U-shaped hoop according to the diameter of the actual installation pole.

- 4 The U-shaped clamp passes through the mounting column and the brackets to fix the brackets on the mounting column.

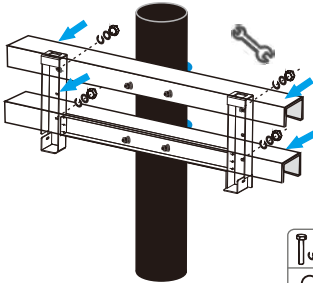



⚠ Before installation, make sure the column can support the weight of the inverter.

- 5 Install the inverter bracket

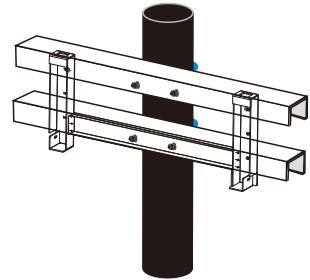


- 6 Fix the inverter bracket on the column bracket



 M12
C 45N.m

- 7



CAUTION

1. Properly assess the weight of the machine:

Arrange a sufficient number of movers according to the weight of the inverter and make sure they understand the correct moving techniques.

2. Wear appropriate protective equipment:

Movers should wear anti-smashing shoes, gloves and other necessary protective equipment.

3. Keep balance:

During the moving process, always keep the inverter balanced to avoid tilting or shaking.

4. Use moving tools:

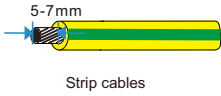
Use tools such as screw-in handles and base handles to assist in moving, and avoid lifting directly by hand.

5. Avoid placing directly on hard ground:

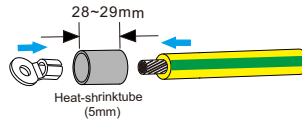
Place protective materials such as sponge pads or foam under the inverter to avoid damage to the inverter caused by placing it directly on hard ground.

PE/PE/mise à la terre/Puesta a tierra/Aarding

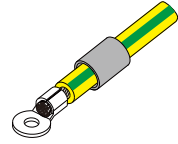
1 Suggested spec: 10AWG wire



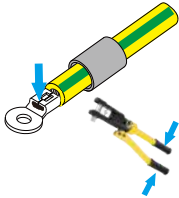
2



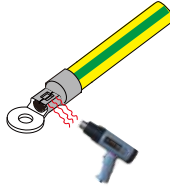
3



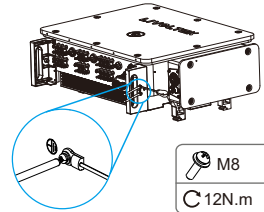
4 Crimping terminal



5

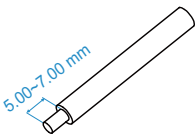


6 Fasten on the inverter

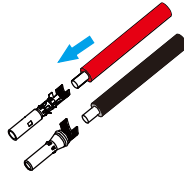


PV

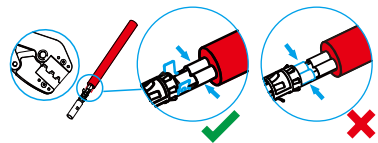
1 Suggested spec:
12-10AWG, 4~6mm² wire diameter:



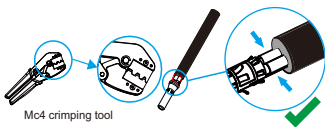
2 Insert the PV+/PV- pin



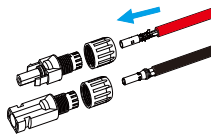
3 PV+ crimping method



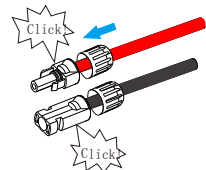
4 PV- crimping method



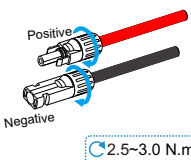
5



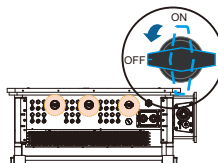
6



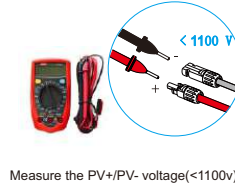
7



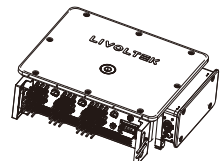
8



9

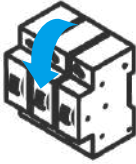


10



AC

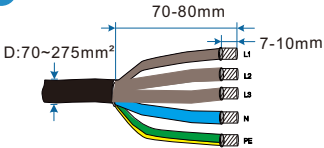
- 1** To ensure safety, cut off power first



Suggested circuit breaker current

Product AC Power	75kW	100kW	110kW	125kW	
Circuit Breaker Current	160A	200A	200A	250A	
Product AC Power	36kW-L	40kW-L	50kW-L	60kW-L	75kW-L
Circuit Breaker Current	160A	160A	200A	250A	250A
Product AC Power	100kW-M	124kW-M	125kW-M	150kW-M	
Circuit Breaker Current	200A	250A	250A	250A	

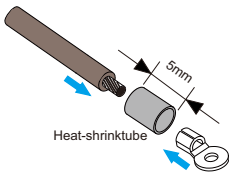
- 2**



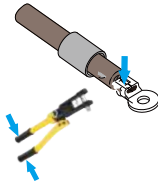
Suggested cable diameter:

Product AC Power	75-125kW	36-75kW-L	100-150kW-M
L/N	70-240mm²	70-240mm²	70-240mm²
PE	≥35mm²	≥35mm²	≥35mm²

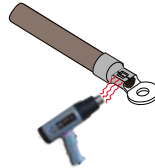
- 3**



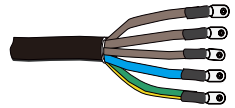
- 4**



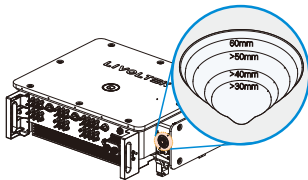
- 5**



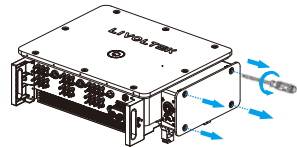
- 6**



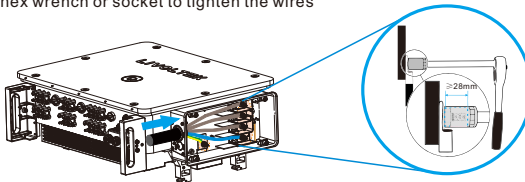
- 7** It can be cut according to the AC wire diameter



- 8** Remove the screws



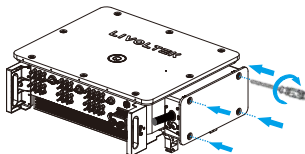
- 9** Use a hex wrench or socket to tighten the wires



M12*4

C 45N.m

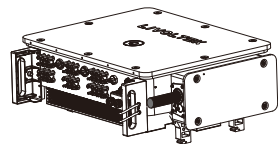
- 10** Tighten the 4 screws on the AC cover using a Phillips screwdriver.



M6

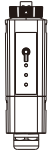
C 4.2N.m

- 11**

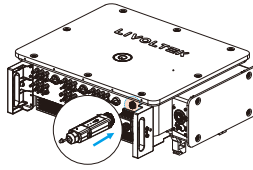


Wi-Fi

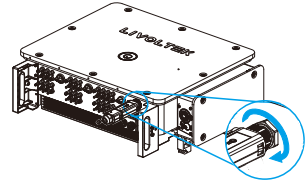
1



2 Insert the Wi-Fi into the inverter.

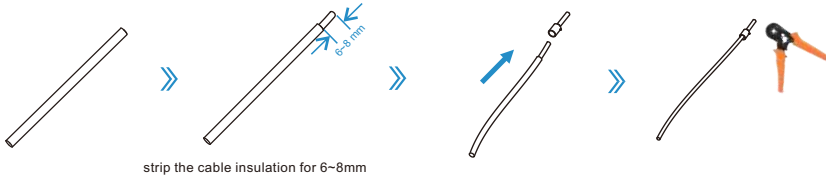


3 Screw down the Wi-Fi



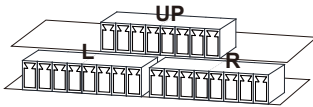
COM

Making COM Wirings



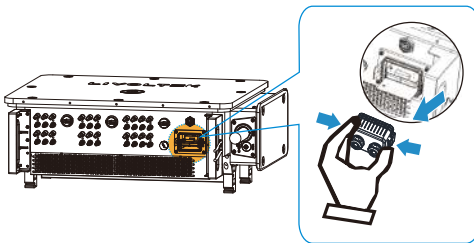
COM Connection

COM port details display diagram

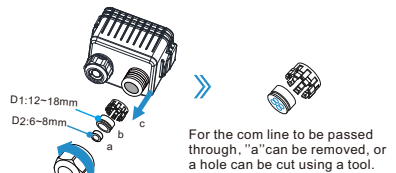


UP	DRM1/5	DRM2/6	DRM3/7	DRM4/8	REF	COM	DRM1/5	REF
L	RS4851A	RS4851B	RS4852A	RS4852B	RS4853A	RS4853B	DI_1	DI_2
R	RS485A_R	RS485B_R	Meter_485A	Meter_485B	DO_1	DO_2	CAN_H	CAN_L

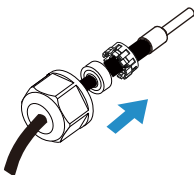
1 Press the buckle on the waterproof shell inward with your hands, and then pull it outward. The waterproof cover can be removed.



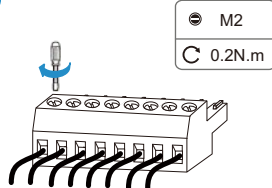
2



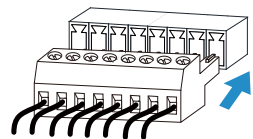
3



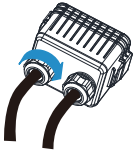
4



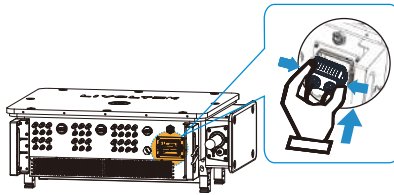
5



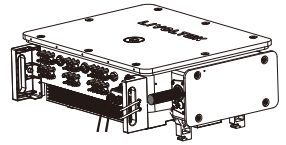
6



7



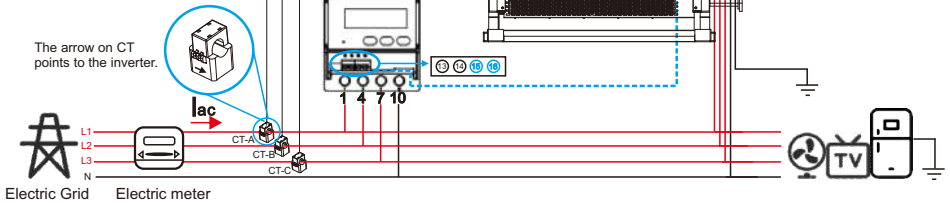
8



System Connection Diagram/Diagrama de conexão do sistema/Schéma de connexion du système/Diagrama de conexión del sistema/Schema di connessione del sistema

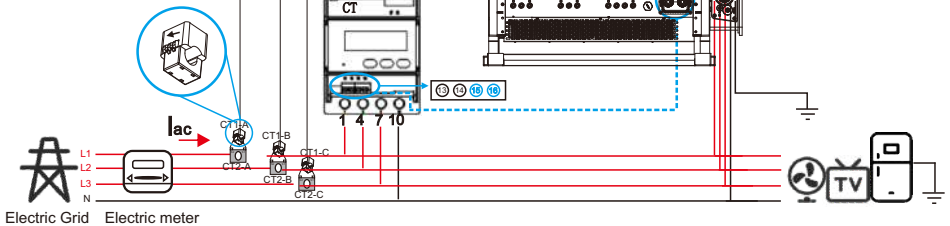
With CT Connection Diagram($80A \leq I_{ac} \leq 120A, 120A \leq I_{ac} \leq 250A$)

COM	Meter
Meter_485A	15
Meter_485B	16



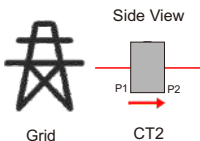
With Two-type CT ($I_{ac} > 250A$) Connection Diagram

COM	Meter
Meter_485A	15
Meter_485B	16



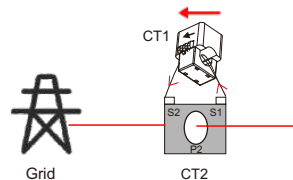
Two-type CT Connection

CT2: P1→P2:



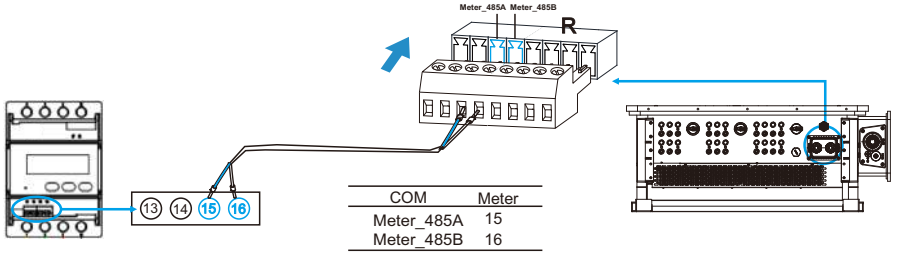
Notice:P1 need to be near the grid

CT1: S1 to S2:



Notice:There is an arrow marking the direction of the current on CT1. The direction of the arrow needs to point to the grid side.

Meter Connection



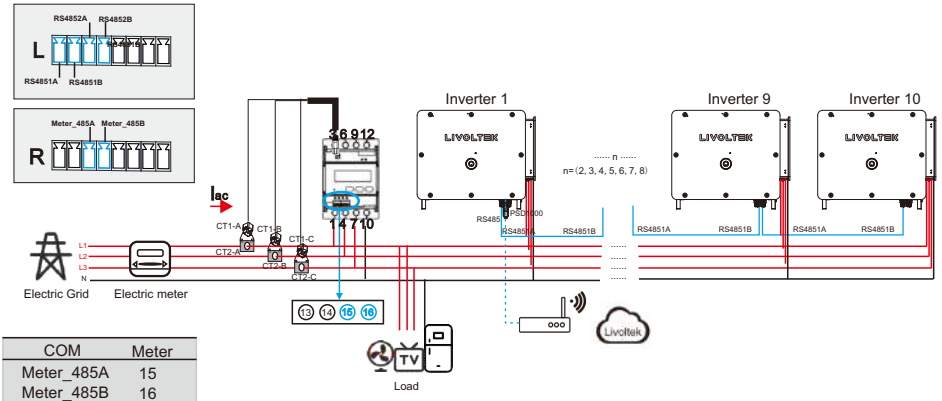
Methods to determine the correct direction of smart meter:

- ① Disconnected the inverter, activate household loads, and observe the current and power values readings on the meter. Positive readings indicate the meter is correctly installed.
- ② Disconnected all household loads, use inverter to supply power, and observe the current and power values readings on the meter. Negative readings confirm the meter is correctly installed.

Note: A positive current flow indicates direction towards the inverter, while a negative flow indicates direction towards the grid.

Parallel Connection Diagram

This series grid-tied inverters are used in large industrial and commercial applications. When multiple (up to 10) inverters are connected in parallel, RS485 communication lines can be used for daisy chain connection.



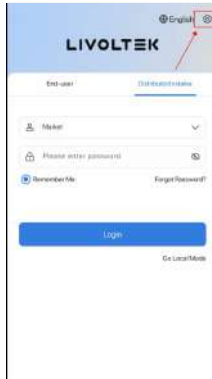
1 Confirm Server Address

a Scan the QR code to download the "My LIVOLTEK" APP

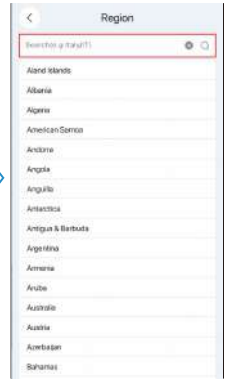
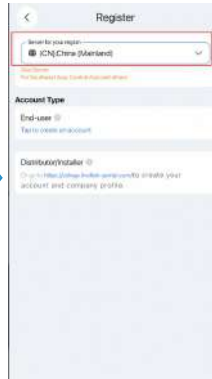


My Livoltek App Download

b Go to login page



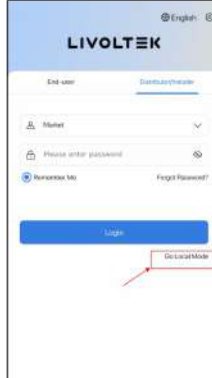
c Select the appropriate server based on the installation site.



2 Confirm WiFi Dongle Server

Notice: If you are using the PSD1000-WiFi, be sure to confirm the server where the WiFi dongle is located before configuring the network.

a Click "Go Local Mode"



b Click "Wi-Fi Mode"



c Connecting the WiFi dongle



Connect to WiFi logger according to the last six digits of WiFi's SN (LTKAP-XXXXXX)
Initial pd: admin123456

d Click "Wi-Fi Mode" again



e Enter default account and password

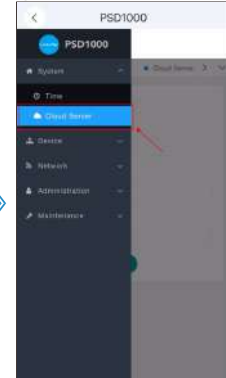


After clicking "login", enter the parameter setting interface.
Account:Admin
Password:123456

f Click "☐" icon in the lower left corner



g Click on "Cloud Server"



System Operation

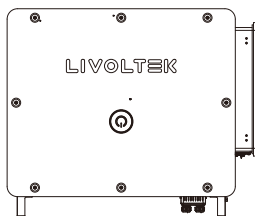
Powering on the System





- Step 1:** Turn on the AC breaker on the GRID side.
- Step 2:** Turn on the PV breaker.
- Step 3:** Switch on the loads (if needed to set 0-feed-in function).
- Step 4:** Wi-Fi Dongle network connection.
- Step 5:** Observe the LED indicator.

Powering off the System

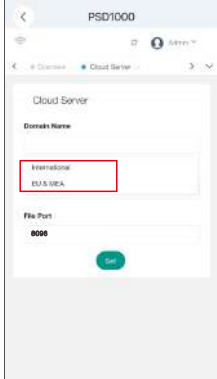
- Step 1:** Turn off the loads (if needed).
- Step 2:** Turn off the PV.
- Step 3:** Turn off the AC switch.
- Step 4:** Observe the LED indicator.
- Step 5:** Disconnect the power cable and communication cable if needed.

Panel

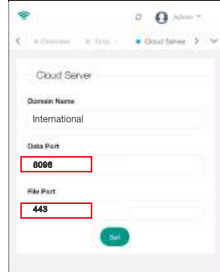


Logo	Color	Status	Description
	Green	On	The inverter is running normally
		Off	The inverter is not operating normally
		Blink	Standby
	Green/Red	Flash Alternately	System updating
	Red	On	Fault occurs
		Off	No fault occurs
	Green	On	PID Recovering

1 Select the appropriate server based on the installation site

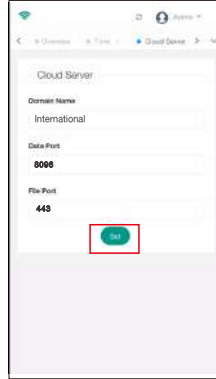


2 Enter default account and password



The default input for "Data Port" and "File Port" is "443"

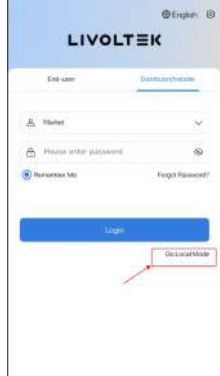
3 Click "Set". Setting is complete



Note: If the correct server has been set up before, this interface will display the corresponding data and there is no need to enter it manually.

3 Distribution Network

a Go local mode



b Click "Wi-Fi Mode"



c Enter default account and password

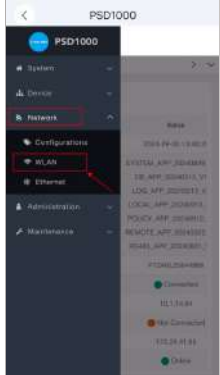


After clicking "login", enter the parameter setting interface.
Account: Admin
Password: 123456

d Click "Overview" icon in the lower left corner



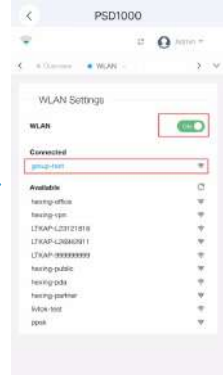
e Click "WLAN"



f Make sure "WLAN" is turned on



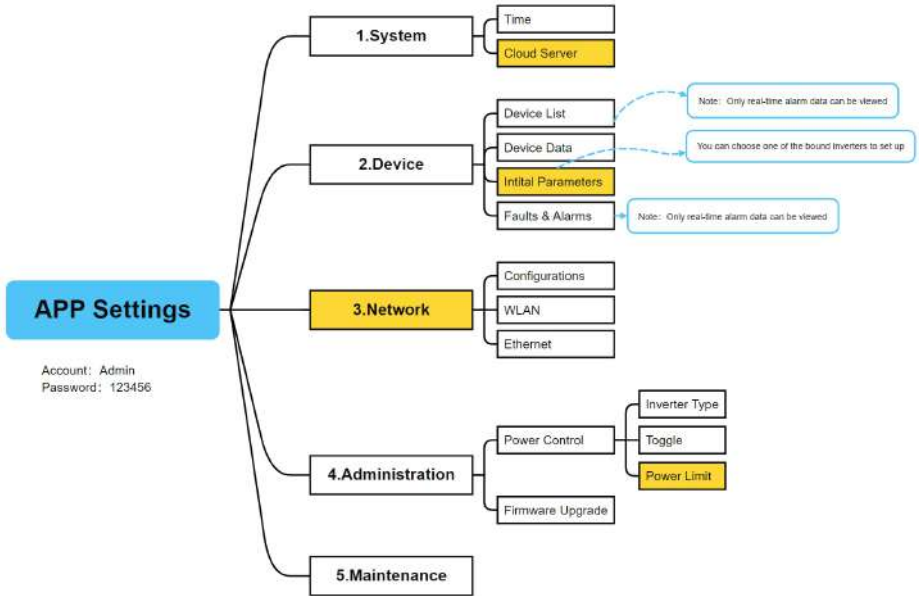
g Connect to your home Wi-Fi



4 Initial Parameter Setting

Steps:

1. Power on inverter
2. Install My Livoltek App
3. Wi-Fi dongle connection by App
4. App Account Restriction
5. Create a site(Plant)
6. Add the device(inverter)to the site
7. Set initial parameters via the App's local mode.
8. Complete setup and start the inverter



💡 For detailed steps on creating an account, power station, adding devices, etc., please refer to the "Monitoring System APP Guide" document.

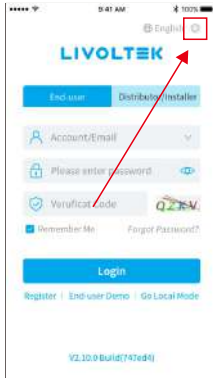
1 Confirm Server Address

a scan the QR code to download the "My LIVOLTEK" APP

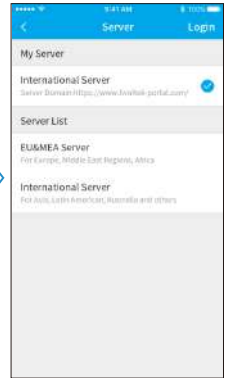
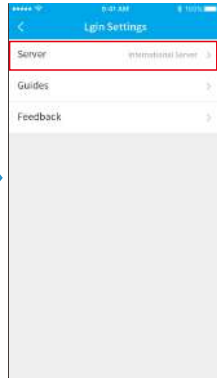


My Livoltek App Download

b go to login page



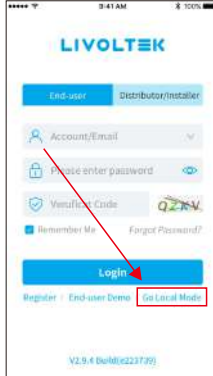
c select the appropriate server based on the installation site.



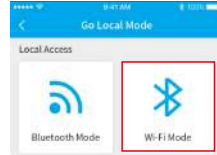
2 Confirm WiFi Dongle Server

Notice: if you are using the PSD300-WiFi, be sure to confirm the server where the WiFi dongle is located before configuring the network.

a click "Go Local Mode"



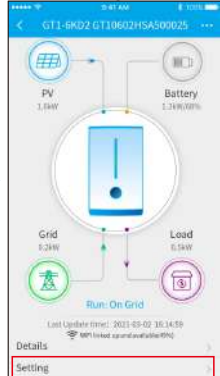
b click "Wi-Fi Mode"



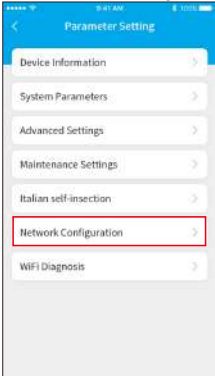
connect to WiFi logger according to the last six digits of WiFi's SN (LTKAP-XXXXXX)
Initial pd: admin123456



c click "Setting"



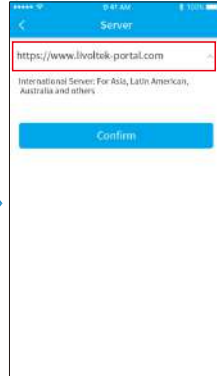
e click "Network Configuration"



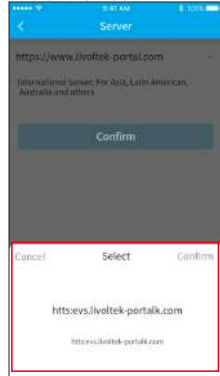
f click "Sever Domain"



g click "Wi-Fi Mode"

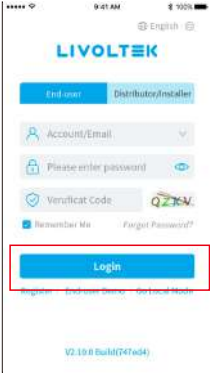


select correct server and then click "Confirm"



5 Create Site

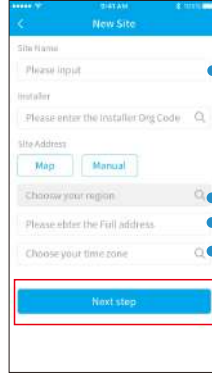
a) login to your account



b) create a site



c) enter site details



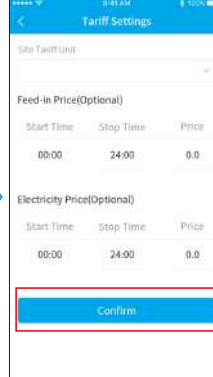
site name

address and time zone must match the installation location

d) set the site according to actual installation



e) set the tariff



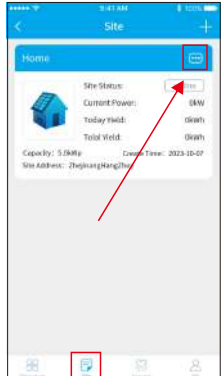
f) site created successfully



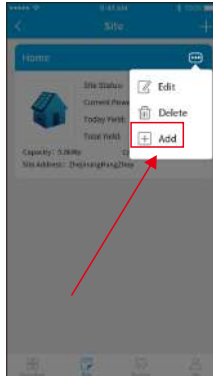
The old users can also add new sites here.

6 Add a Device

a) select a site



b) click "Add"



c) enter product information

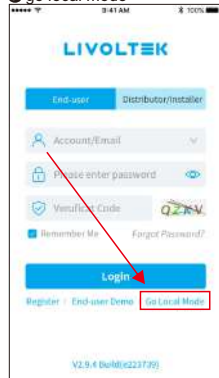


d) device added successfully

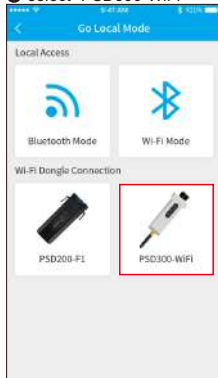


3 Distribution Network

a go local mode



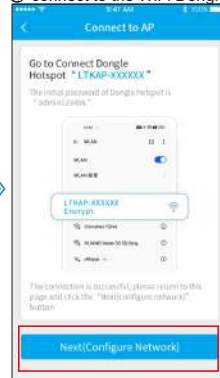
b select "PSD300-WiFi"



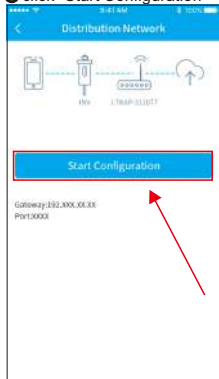
c connect to home WiFi



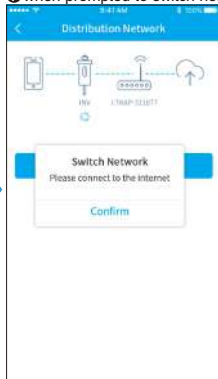
d connect to the WiFi Dongle



e click "Start Configuration"



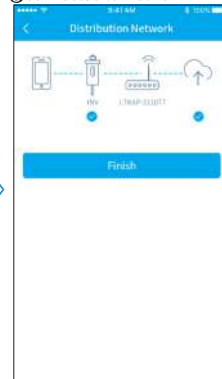
f when prompted to switch networks, connect to your home Wi-Fi.



g connected to Network

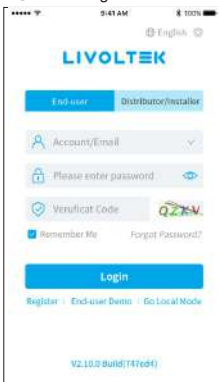


h finished to Network



4 User Register

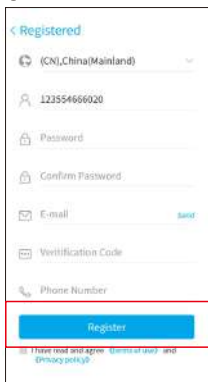
a click "Register"



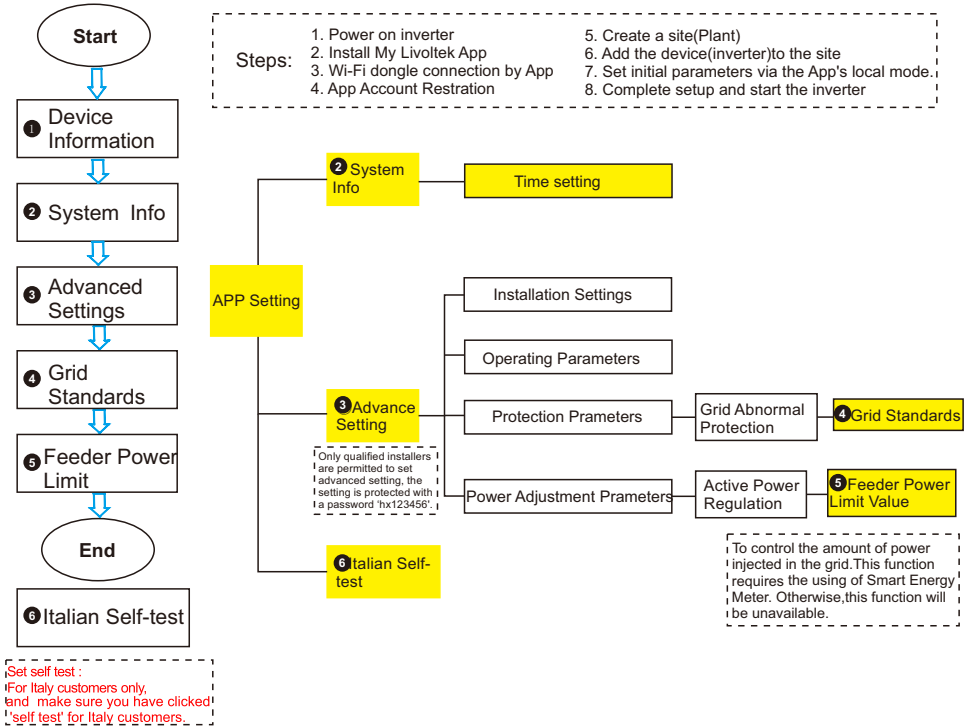
b select the region and account type



c enter account details



7 Initial Parameter Setting



 For detailed steps on creating an account, power station, adding devices, etc., please refer to the "Monitoring System APP Guide" document.

LIVOLTEK official platform:

WEB LINK1: <https://www.livoltek-portal.com/>
For Asia, Latin, American, Australia and others

WEB LINK2: <https://evs.livoltek-portal.com/>
For Europe, Middle East Regions, Africa



My Livoltek App
Cloud Monitoring

1 User Register

a

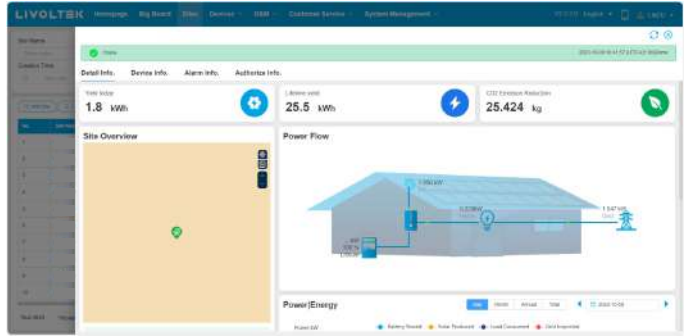
b

c

2 Create Site

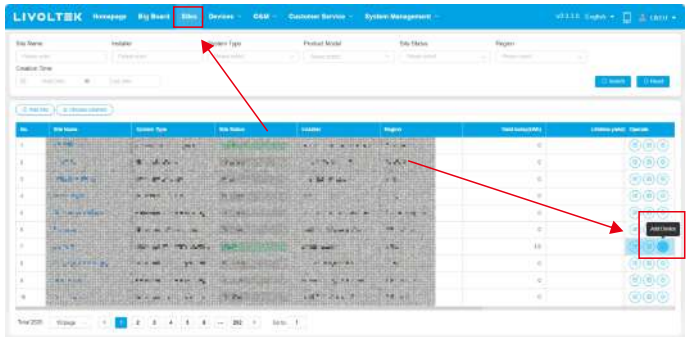
- a** click on the "site" on navigation bar
- b** click the "Add site"
- c** input the information as required in the pop-up box on the right.

① users could click on the site name to view related data

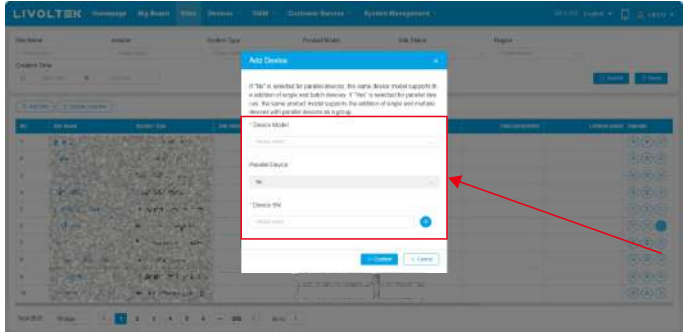


③ Add Device

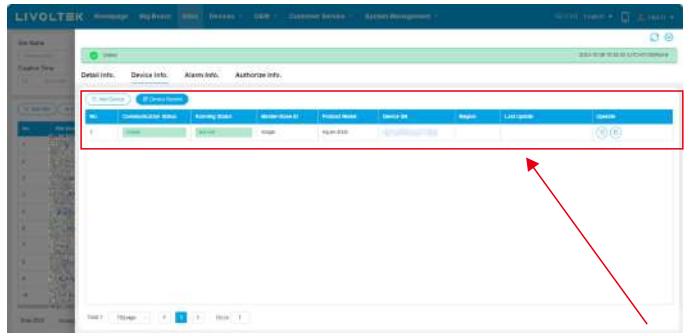
Ⓐ click "Add Device"



Ⓑ input the information of device



Ⓒ open the site, users could view the information of devices





More information in the QR code or
at www.livoltek.com

LIVOLTEK®

 1418-35 Moganshan Road, Hangzhou, 310011, China

 info@livoltek.com

 www.livoltek.com

Warranty Card Registration



Dear customer, thank you for choosing LIVOLTEK product. For registering product warranty, please prepare everything ready and register on

<https://www.livoltek.com/registration.html>.

Product Information	
Product Type	
Product S/N	
Installation date	
Installation Company	
Personal Information	
Your name	
Your contact number	
Your Email address	
Your home address	

*Warranties should be registered within 36 months of installation, however it is recommended that they are registered no more than 6 weeks following the successful installation and commissioning of the Product where possible, thanks for your cooperation.