

LX A5.0-10: The nominal charging and discharging current of a single battery is 60A; a maximum of 15 batteries can be connected in parallel in one system. LX A5.0-30: The nominal charging current of a single battery is 60A, and the discharging current is 100A; the maximum continuous charging current is 90A; the maximum continuous discharging current is 150A. A maximum of 30 batteries can be connected in parallel in one system.

LX U5.4-20: The maximum discharge current of a single battery is 50A; A maximum of 6 batteries can be connected in parallel in one system.

LX U5.0-30: The nominal charging current of a single battery is 60A, and the discharging current is 100A; the maximum continuous charging current is 90A; the maximum continuous discharging current is 100A. A maximum of 30 batteries

Supports connection to lead-acid batteries of AGM, GEL, and Flooded types. The number of batteries that can be connected in series is calculated based on the voltage of lead-acid batteries, and the total voltage of batteries connected in

When the charging and discharging current between battery and inverter is less than 160A, it supports direct connection between battery and inverter without using a busbar. For example: It supports connecting GW8000-ES-C10 to LX A5.0-30 without using a busbar. For detailed battery wiring methods, please refer to

When the charging and discharging current between battery and inverter is  $\geq$ 160A, a busbar or busbar box must be used to connect the inverter. (Current  $\geq$ M x IBat rated. (M: The quantity of batteries connected in parallel in the system,

» Used with LX A5.0-10, the battery system supports a maximum working current of 360A, working power of 18kW, and can connect to a maximum of

» Used with LX A5.0-10, the battery system supports a maximum working current of 720A, working power of 36kW, and can connect to a maximum of

» Used with LX A5.0-30, the battery system supports a maximum working current of 720A, working power of 36kW, and can connect to a maximum of

» Used with LX A5.0-10, the battery system supports a maximum working current of 720A, working power of 36kW, and can connect to a maximum of

» Used with LX A5.0-30, the battery system supports a maximum working current of 720A, working power of 36kW, and can connect to a maximum of

» Used with LX U5.0-30, the battery system supports a maximum working current of 720A, working power of 36kW, and can connect to a maximum of

» Used with LX U5.0-30, the battery system supports a maximum working current of 720A, working power of 36kW, and can connect to a maximum of

Others: Please prepare busbar based on actual system power and current.

Device	Model	Description
Smart Me- ter	<ul> <li>Built-in Smart Meter (Standard)</li> <li>GMK110 (optional)</li> <li>GM330 (purchase from GoodWe)</li> </ul>	<ul> <li>Built-in smart meter: 10-meter wire CT, default CT ratio: 120A/40mA</li> <li>GMK110: When the length of the built-in CT cable of the inverter is not enough for connection to the switchboard, it can be extended through an external GMK110 smart meter. CT is not supported for changing to other type, CT ratio: 120A/40mA</li> <li>CM330: order the CT for GM330 from GoodWe or other suppliers. CT ratio: nA/5A.</li> <li>nA: CT primary input current, n ranges from 200 to 5000.</li> <li>5A: CT Secondary input current.</li> </ul>
Smart Dongle	<ul> <li>WiFi/LAN Kit-20 (Standard)</li> <li>Ezlink3000 (purchase from GoodWe)</li> </ul>	<ul> <li>Please use the WiFi/LAN Kit-20 module in single inverter system.</li> <li>In parallel system, the EzLink3000 must be connected to the master inverter. Do not connect any smart dongle to slave inverter. Ezlink3000 requires a firmware version of 04 or above.</li> </ul>

# 02 Power On/Off

# Single inverter system



# Multi-inverter system



ESU10PWR0001

Installations



# 04 Wiring Diagram ES Uniq 8-12kW (single) + Lynx Home A or U or Lead-acid battery + Builit-in smart meter + WiFi/LAN Kit-20



ES Uniq 8-12kW (single) + Lynx Home A or U or Lead-acid battery + GMK110 + WiFi-LAN Kit-20



ES Uniq 8-12kW (parallel connected) + Lynx Home A or Lead-acid battery + GM330 + Ezlink3000



# Battery System Wiring Diagram



The wiring methods are the same when using third-party busbars for LX A5.0-10 and LX A5.0-30, taking LX A5.0-10 as an example here.





The quantity of batteries depends on the required voltage.

# 05 Equipment Commissioning





In parallel scenarios, the software version of SolarGo app should be 5.4.0 or above. Follow the prompts to connect the device.

# **Quick Settings**

Method I: Tap **Home** > **Settings** > **Quick Settings** to complete quick settings step by step. Installer password: goodwe2010

Method II: Using LCD screen to finish quick settings. Click on the screen or use buttons to operate. > Quick Setting, follow the prompts to complete inverter settings.

Safety Code

Cyprus

Czech

Denmark

Estonia

Finland

France

Germany

DE MV

Greece

For AC Couplied Inverter

Based on VDE-AR-N 4105

Based on VDE-AR-N 4105

For Hybrid Inverter



## Setting Safety Code

#### Setting safety code via SolarGo APP





**Setting Inverter Quantity (Only For** Setting the BAT Connect Mode via SolarGo APP Parallel Connections, APP only)



BAT Connect Mode		Select Battery M	Select Battery Model	
		GoodWe		
~	Battery Connect Setting	LX U5.4-20*1		
		LX U5.0-30		
		LX A5.0-30		
~	No Battery	LX A5.0-10*3		
		LX U5.4-20*2		
		LX A5.0-10*4		
		LX U5.4-20*3		
		LX A5.0-10*5		
		LX U5.4-20*4		
		LX A5.0-10*6		
		LX U5.4-20*5		
		LX U5.4-20*6		

Setting BAT parameter via LCD screen

Lithium battery (GOODWE battery)



g		Cancel
t Mode:	Battery Model:	LX A5.0-30
ery	O Default	
	O Others	
	C Lead-acid	
		Next Confirm

Lithium battery (Models not in the list)



## Lithium battery (Models in the list)



Lead-acid battery



# Setting working mode via LCD screen

## Back-up Mode







TOU Mode



Setting working mode via SolarGo APP



10

Cancel

2

Power(‰) Bat(%)

0.00 0.00

0.00

0.00

0.00

Time

00 - 00

00

00

00

Back Next

00

Cancel

0.00

Confirm

## Setting the Advanced Parameters

Tap **Home** > **Settings** > **Advanced Settings** to set the following functions.

## Setting DRED/Remote Shutdown/RCR

Advanced Settings	This function is disabled by
DRED/Remote Shutdown/RCR ON:The DRED/Remote Shutdown/RCR function enabled Please check if turned on this function and cable connection. For the detail please refer to the manual and local regulations.	default. To use the Remote Shutdown function, turn on this switch.
Backup N And PE Relay Switch ON: During off-grid operation, Backup N and PE are connected inside the inverter. OFF: During off-grid operation, Backup N and PE are disconnected inside the inverter. Set this parameter according to local power grid installation regulations.	
Battery Ports Busbar Connection	
Power Limit >	
AFCI Test >	
Battery Function Settings	
Safety Parameter >	

## **Setting Battery Functions**



Through battery function settings, you can set parameters for battery connected in the system.

## Setting Power Limit

tings to set the following functions.





## Configuring the Network

Tap Home > Settings > Communication Setting to set network parameters.





# Setting power limit via LCD screen

# Setting GEN port

Tap **Home** > **Settings** > **Quick Settings** to set parameters for generator or load.



## Settings generator parameters via LCD screen



## Creating a Power Plant

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Create power plants and add equipments via SEMS Portal app.



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