

Battery Compatibility Overview

This document lists the compatible batteries with GoodWe storage inverters, consisting in 1 system type:

1) High-voltage Energy Storage Systems (for U.S only).

Only batteries listed in this document are approved for connection to GoodWe storage inverters according to GoodWe Limited Warranty.

In addition to the batteries listed in this document, there are some batteries that follow the GOODWE CAN communication protocol that are not listed in this document, if you need to get the matching information for these batteries, please consult GOODWE's technical service personnel.

1) High-voltage Energy Storage Systems (for U.S only).

Battery Brand	Battery Series	Battery Model	Inverter Series			
			A-ES	A-BP	ES-US20	SBP-US20
GoodWe	SECU-S ^{*1}	SECU-S13	●	●		
		SECU-S15	●	●		
		SECU-S18	●	●		
		SECU-S20	●	●		
	Lynx Home FH series US ^{*2}	LX F9.6-30	●	●	●	●
		LX F12.8-30	●	●	●	●
		LX F16.0-30	●	●	●	●
		LX F19.2-30	●	●	●	●
A-ES/A-BP: *1. ARM firmware versions 14 and above are required for compatibility. ES-US20/SBP-US20: *2. ARM firmware versions 03 and above are required for compatibility. A-ES/A-BP: *2. ARM firmware versions 24 and above and DSP versions 07 and above are required for compatibility.						
Battery Brand	Battery Series	Battery Model	A-ES	A-BP	ES-US20	SBP-US20
BYD	Battery-Box Premium HVL ^{*1}	HVL 12.0	●	●		
		HVL 16.0	●	●		
		HVL 20.0	●	●		
		HVL 24.0	●	●		
		HVL 28.0	●	●		
		HVL 32.0	●	●		
A-ES/A-BP: *1. ARM firmware versions 11 and above are required for compatibility.						
Battery Brand	Battery Series	Battery Model	A-ES	A-BP	ES-US20	SBP-US20
OLOID	LBS102100A Series ^{*1}	LBS102100A	●	●		
	LBS153100A Series ^{*1}	LBS153100A	●	●		
	LBS205100A Series ^{*1}	LBS205100A	●	●		
A-ES/A-BP: *1. ARM firmware versions 14 and above are required for compatibility.						
Battery Brand	Battery Series	Battery Model	A-ES	A-BP	ES-US20	SBP-US20
Soluna	HV Battery Series ^{*1*2}	Soluna 7K Pack HV	●	●	●	●
		Soluna 10K Pack HV	●	●	●	●
		Soluna 15K Pack HV	●	●	●	●
		A-ES/A-BP: *1. ARM firmware versions 10 and above are required for compatibility. *2. Soluna HV does not have UL9540 certificate. ES-US20/SBP-US20 *1. ARM firmware versions 07 and above are required for compatibility. *2. Soluna HV does not have UL9540 certificate.				
Battery Brand	Battery Series	Battery Model	A-ES	A-BP	ES-US20	SBP-US20
LG	RESU Type-R Series ^{*2*3}	RESU10H Type-R	●	●		
	RESU Prime Series ^{*1*4}	RESU10H Prime	●	●	●	●
		RESU16H Prime	●	●	●	●
A-ES/A-BP: *1. ARM firmware versions 20 and above and DSP versions 05 and above are required for compatibility. *2. When A-BP is compatible with LG RESU HV Series, the micro-grid applications are not supported. *3. The compatibility of A-ES/A-BP with LG RESU10H Type-R is stated as follows: 1) Connection of RESU10H Type-R batteries in parallel is not supported. 2) For first inverter operation with LG battery, the inverter must be powered by the grid for the LG battery to be activated. 3) LG RESU10H Type-R battery Max discharge power is 5kW. Please ensure backup load peak power does not exceed 5kVA in backup mode. Loads with large inrush current (such as inductive loads including motors) may lead to output failure on backup side. 4) Depending on real-time battery condition, such as SOC, battery temperature etc, the battery output power may not be able to support backup load, which could lead to system failure. If this occurs, both battery and backup supply will cease. Power will resume if there is solar power available. 5) LG battery needs time to switch from charge to discharge up to the preset power. Quickly switching from on-grid mode to backup mode could fail if backup load power is higher than the max power ramp-up the battery can sustain within a limited time. *4. ARM firmware versions 05 and above and DSP versions 02 and above are required for compatibility.						