ES/EM/SBP/BP:

\*1. ARM firmware versions 07 and above are required for compatibility.



# Battery Compatibility Overview

This document lists the compatible batteries with all GoodWe storage inverters, consisting in 3 system types:

- 1) Low-voltage energy storage systems
- 2) High-voltage energy storage systems
- 3) Commercial and industrial energy storage systems
- 4) 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.

### 1) Low-voltage Energy Storage Systems

Battery	Battery	Battery			Inverte	er Series		
Brand	Series	Model	ES	EM	SBP	ES G2	SBP G2	ВР
0000	SECU-A	SECU-A5.4L	•	•	•	•	•	•
GOODWE	Lynx Home U*1	LX U5.4-L	•	•	•	•	•	•
ES/EM/SBP/BP:						ı		
	versions 11 and above are required for compa		F0	E14	000	F0.00	000.00	
Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
	Battery-Box Pro Series*1	-	•	•	•	•	•	•
	Battery-Box Res Series*1	-	•	•	•	•	•	•
BYD	Battery-Box LV Series*2	-	•	•	•	•	•	•
	Battery-Box Premium LVL*2	LVL 15.4	•	•	•	•	•	•
	Battery-Box Premium LVS Series*2	-	•	•	•	•	•	•
	versions 00 and above are required for comparersions 07 and above are required for comparersions 07 and above are required for comparersions.							
Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
		RESU 3.3*1	•	•		•	•	
		RESU 6.5*1	•	•	•	•	•	
LG	DECLLIV Corios	RESU 10*1	•	•	•	•	•	
LG	RESU LV Series	RESU 12*2	•	•	•	•	•	
		RESU 13*2	•	•	•	•	•	
		RESU 6.4 EX*1	•	•	•	•	•	
ES/EM/SBP:								
1. ARM firmware v 2. ARM firmware v	versions 00 and above are required for comparersions 07 and above are required for comparersions 07 and above are required for comparersions.	atibility.	ES	EM	SBP	ES G2	SBP G2	BP
1. ARM firmware v	versions 07 and above are required for compa	atibility.  Battery Model	ES	EM •	SBP	ES G2	SBP G2	BP •
1. ARM firmware v 2. ARM firmware v	versions 07 and above are required for comparately Series  US2000 Series*1	Battery Model US2000			_			
11. ARM firmware v 22. ARM firmware v Battery Brand	Persions 07 and above are required for comparately Series US2000 Series*1 US3000 Series*2	Battery Model US2000 US3000	•	•	•	•	•	•
1. ARM firmware v 2. ARM firmware v	Persions 07 and above are required for comparately Series  US2000 Series*1  US3000 Series*2  US2000C Series*1	Battery Model US2000	•	•	•	•	•	•
1. ARM firmware v 2. ARM firmware v Battery Brand	Persions 07 and above are required for comparately Series  US2000 Series*1  US3000 Series*2  US2000C Series*1  US3000C Series*2	Battery Model US2000 US3000 US2000C	•	•	•	•	•	•
1. ARM firmware v 2. ARM firmware v Battery Brand	Persions 07 and above are required for comparing to the series of the se	Battery Model US2000 US3000 US2000C US3000C Force-L1	•	•	•	•	•	•
21. ARM firmware v 22. ARM firmware v 3. ARM firmware v 3. ARM firmware v PYLON ES/EM/SBP/BP:	Persions 07 and above are required for comparately Series  US2000 Series*1  US3000 Series*2  US2000C Series*1  US3000C Series*2	### Battery Model  US2000  US3000  US2000C  US3000C  Force-L1  Force-L2  ###################################	•	•	•	•	•	•
1. ARM firmware v 2. ARM firmware v Battery Brand PYLON PYLON ES/EM/SBP/BP: 1. ARM firmware v	Persions 07 and above are required for comparately Series  US2000 Series*1  US3000 Series*2  US2000C Series*2  US3000C Series*2  Force L1 Series*2  Force L2 Series*2  Persions 00 and above are required for comparately series of the series o	### Battery Model  US2000  US3000  US2000C  US3000C  Force-L1  Force-L2  ###################################	•	•	•	•	•	•
1. ARM firmware v 2. ARM firmware v Battery Brand PYLON PYLON ES/EM/SBP/BP: 1. ARM firmware v 2. ARM firmware v	Battery Series  US2000 Series*1  US3000 Series*2  US2000C Series*1  US3000C Series*2  US3000C Series*2  Force L1 Series*2  Force L2 Series*2  versions 00 and above are required for comparents of the comparents o	Battery Model US2000 US3000 US2000C US3000C Force-L1 Force-L2 atibility.	•	•	•	•	•	•
1. ARM firmware v 2. ARM firmware v Battery Brand PYLON PYLON ES/EM/SBP/BP: 1. ARM firmware v 2. ARM firmware v	Battery Series  US2000 Series 1  US3000 Series 2  US2000C Series 1  US3000C Series 2  Force L1 Series 2  Force L2 Series 2  Versions 00 and above are required for comparent of the comparent of	atibility.  Battery Model  US2000  US3000  US2000C  US3000C  Force-L1  Force-L2  atibility.  Battery Model	• • • •	• • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • •
1. ARM firmware v 2. ARM firmware v Battery Brand PYLON PYLON ES/EM/SBP/BP: 1. ARM firmware v 2. ARM firmware v	Battery Series  US2000 Series*1  US3000 Series*2  US2000C Series*1  US3000C Series*2  US3000C Series*2  Force L1 Series*2  Force L2 Series*2  versions 00 and above are required for comparents of the comparents o	atibility.  Battery Model  US2000  US3000  US2000C  US3000C  Force-L1  Force-L2  atibility.  Battery Model  DYNESS-LV x1	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •
1. ARM firmware v 2. ARM firmware v Battery Brand PYLON ES/EM/SBP/BP: 1. ARM firmware v 2. ARM firmware v 3. ARM firmware v	Battery Series  US2000 Series 1  US3000 Series 2  US2000C Series 1  US3000C Series 2  Force L1 Series 2  Force L2 Series 2  Versions 00 and above are required for comparent of the comparent of	### Battery Model  US2000  US3000  US3000C  US3000C  Force-L1  Force-L2  ###################################	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •
1. ARM firmware v 2. ARM firmware v Battery Brand PYLON PYLON ES/EM/SBP/BP: 1. ARM firmware v 2. ARM firmware v	Battery Series  US2000 Series 1  US3000 Series 2  US2000C Series 1  US3000C Series 2  Force L1 Series 2  Force L2 Series 2  Versions 00 and above are required for comparent of the comparent of	### Battery Model  US2000  US3000  US3000C  US3000C  Force-L1  Force-L2  ###################################	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	ES G2	SBP G2	8P
1. ARM firmware v 2. ARM firmware v Battery Brand PYLON ES/EM/SBP/BP: 1. ARM firmware v 2. ARM firmware v 3. ARM firmware v	Battery Series  US2000 Series*1  US3000 Series*2  US2000C Series*1  US3000C Series*2  Force L1 Series*2  Force L2 Series*2  Versions 00 and above are required for comparisons 07 and 08	atibility.  Battery Model  US2000  US3000  US2000C  US3000C  Force-L1  Force-L2  atibility.  Battery Model  DYNESS-LV x1  DYNESS-LV x2  DYNESS-LV x4	• • • • • • • • • • • • • • • • • • •	EM •	SBP • • • • • • • • • • • • • • • • • • •	ES G2	SBP G2	8P
1. ARM firmware v 2. ARM firmware v Battery Brand PYLON ES/EM/SBP/BP: 1. ARM firmware v 2. ARM firmware v 3. ARM firmware v	Battery Series  US2000 Series 1  US3000 Series 2  US2000C Series 1  US3000C Series 2  Force L1 Series 2  Force L2 Series 2  Versions 00 and above are required for comparent of the comparent of	### Battery Model  US2000  US3000  US3000C  US3000C  Force-L1  Force-L2  ###################################	ES .	EM •	SBP	ES G2	SBP G2	BP •



## **Battery Compatibility Overview**

### 1) Low-voltage Energy Storage Systems

Battery	Battery	Battery			Inverte	er Series		
Brand	Series	Model	ES	EM	SBP	ES G2	SBP G2	ВР
	LBS051100A Series <sup>*1</sup>	LBS051100A-A02	•			•	•	
OLOID	LBS051100A Series	LBS051100A-A03	•			•	•	
OLOID	LBS051200A Series <sup>*1</sup>	LBS051200A-A02	•			•	•	
	LBS051200A Series	LBS051200A-A03	•			•	•	
ES: *1. ARM firmware v	ersions 12 and above are required for comp	atibility.						
Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
		Soluna 4K Pack	•	•	•	•	•	
Soluna	LV(48V) Battery Series	Soluna 5K Pack	•	•	•	•	•	
		Soluna EOS 5K Pack	•	•	•	•	•	
Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	ВР
	Smile5-BAT Series	SMILE5-BAT*2	•	•	•	•	•	•
		Smile-BAT-10.1P*2	•	•	•	•	•	•
A L DU LA*1	Smile-BAT Series	Smile-BAT-10.3P*2	•	•	•	•	•	•
ALPHA <sup>*1</sup>		Smile-BAT-13.3P <sup>*3</sup>	•	•	•	•	•	•
	M48112-P Series	M48112-P*3	•	•	•	•	•	•
	M48100-P Series	M48100-P*3	•	•	•	•	•	•

### ES/EM/SBP/BP:

- \*1. CAN communication line sequence of ALPHA-ESS battery does not match GoodWe inverters. A matching solution provided by ALPHA-ESS is required.
- \*2. ARM firmware versions 10 and above are required for compatibility.
  \*3. ARM firmware versions 11 and above are required for compatibility.

0.7 ti (tvi ilimitivaro v	stoletie 11 dita above are required for our	inpationity.						
Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	ВР
		Firefly-3.6K	•	•	•	•	•	
		Firefly-7.2K	•	•	•	•	•	
		Firefly-10.8K	•	•	•	•	•	
Tecloman	Firefly Series*1	Firefly-14.4K	•	•	•	•	•	
		Firefly-18.0K	•	•	•	•	•	
		Firefly-21.6K	•	•	•	•	•	
		Firefly-25.2K	•	•	•	•	•	
ES/EM/SBP: *1. ARM firmware ve	ersions 12 and above are required for co	mpatibility.						
Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	ВР
SolarMD	SolarMD SS Series	-	•			•	•	

ES

**Battery Brand** 

**UZENERGY** 

\*1. ARM firmware versions 12 and above are required for compatibility.

**Battery Series** 

L051100-A Series

**Battery Model** 

L051100-A<sup>\*1</sup>

ΕM

SBP

ES G2

SBP G2

BP



# Battery Compatibility Overview

### 2) High-voltage Energy Storage Systems

Battery	Battery	Battery	Inverter Series					
Brand	Series	Model	ET (5-10kW)*	EH	вт	вн	ЕНВ	ET (15-30kW)
		LX S7.5-H		•		•	•	
		LX S10-H	•	•	•	•	•	
	Lyny Llomo C*1	LX S13-H	•	•	•	•	•	
	Lynx Home S <sup>*1</sup>	LX S15-H	•	•	•	•	•	
GOODWE		LX S18-H	•	•	•	•	•	
GOODWE		LX S20-H	•	•	•	•	•	
		LX F6.6-H	•	•	•	•	•	•
	Lynx Home F <sup>*2</sup> Lynx Home F PLUS+ <sup>*2</sup>	LX F9.8-H	•	•	•	•	•	•
	Lynx Home F PLUS+*2	LX F13.1-H	•	•	•	•	•	•
		LX F16.4-H	•		•			•

<sup>\*.</sup> Including ET Series: ET PLUS+, ET PLUS+ (16A)

### ET/EH/BT/BH/EHB:

- \*1. ARM firmware versions 14 and above are required for compatibility.
- \*2. ARM firmware versions 19 and above are required for compatibility.

Battery Brand	Battery Series	Battery Model	ET (5-10kW)*	EH	ВТ	ВН	EHB	ET (15-30kW)
	Battery-Box HV Series*1	-	•	•	•	•		
		HVM 8.3		•		•	•	
		HVM 11.0	•	•	•	•	•	•
	Dettem Dev Dremium LIV/M*2	HVM 13.8	•	•	•	•	•	•
	Battery-Box Premium HVM*2	HVM 16.6	•	•	•	•	•	•
BYD*3		HVM 19.3	•	•	•	•	•	•
		HVM 22.1	•	•	•	•	•	•
		HVS 5.1	•	•	•	•	•	•
	Detter Dev Dremium LIVC*2	HVS 7.7	•	•	•	•	•	•
	Battery-Box Premium HVS*2	HVS 10.2	•	•	•	•	•	•
		HVS 12.8	•		•			•

<sup>\*.</sup> Including ET Series: ET PLUS+, ET PLUS+ (16A)

### ET/EH/BT/BH/EHB:

- \*1. ARM firmware versions 07 and above are required for compatibility.
- \*2. ARM firmware versions 11 and above are required for compatibility.
- \*3. ARM firmware versions 02 and above are required for compatibility.

<b>Battery Brand</b>	<b>Battery Series</b>	Battery Model	ET (5-10kW)*	EH	ВТ	вн	EHB	ET (15-30kW)
		FLEX 8.6	•					
	RESU FLEX Series*1	FLEX 12.9	•					
LG		FLEX 17.2	•					
LG	RESU Type-R Series	RESU10H_Type-R					•	
	RESU Prime Series <sup>*2</sup>	RESU10H Prime					•	
	KESO FIIITIE SEITES	RESU16H Prime					•	

<sup>\*.</sup> Including ET Series: ET PLUS+, ET PLUS+ (16A)

### ET/EH/BT/BH/EHB:

<sup>\*1.</sup> Only compatible with ET PLUS+ Series. ARM firmware versions 23 and above are required for compatibility.

<sup>\*2.</sup> ARM firmware versions 20 and above and DSP versions 02 and above are required for compatibility.



## Battery Compatibility Overview

### 2) High-voltage Energy Storage Systems

Battery	Battery	Battery		lr	verte	r Serie	s	
Brand	Series	Model	ET (5-10kW)*	ΕH	вт	вн	ЕНВ	ET (15-30kW)
	Powercube H1 Series	POWERCUBE-H1-48 <sup>*1*3</sup>	•	•	•	•		•
PYLON	Force H1 Series <sup>*2*3</sup>	Force-H1	•	•	•	•	•	•
	Force H2 Series <sup>*2*3</sup>	Force-H2	•	•	•	•	•	•

<sup>\*.</sup> Including ET Series: ET PLUS+, ET PLUS+ (16A)

### ET/EH/BT/BH/EHB:

- \*1. ARM firmware versions 07 and above are required for compatibility. Please note that the nominal voltage of POWERCUBE-H1-48 Series must be within the Battery Voltage Range of GoodWe inverters. Maximum 8 units for EH/BH, and 11 units for ET/BT.
- \*2. ARM firmware versions 14 and above are required for compatibility. Please note that the nominal voltage of FORCE-H1 Series must be within the Battery Voltage Range of GoodWe inverters. At least 5 FORCE-H1 battery modules for ET.

### ET15-30kW:

\*3. ARM firmware versions 02 and above are required for compatibility.

Battery Brand	Battery Series	Battery Model	ET (5-10kW)*	EH	ВТ	вн	ЕНВ	ET (15-30kW)
		Tower T7		•		•	•	
DYNESS	T 0 : *1	Tower T10	•	•	•	•	•	
DINESS	Tower Series*1	Tower T14	•	•	•	•	•	
		Tower T17	•		•			

<sup>\*.</sup> Including ET Series: ET PLUS+, ET PLUS+ (16A)

### ET/EH/BT/BH/EHB:

\*1. ARM firmware versions 10 and above are required for compatibility.

Battery Brand	Battery Series	Battery Model	ET (5-10kW)*	EH	вт	ВН	ЕНВ	ET (15-30kW)
		Soluna 7K Pack HV		•		•		
Soluna	HV Battery Series <sup>*1</sup>	Soluna 10K Pack HV	•	•	•	•		
		Soluna 15K Pack HV	•		•			

<sup>\*.</sup> Including ET Series: ET PLUS+, ET PLUS+ (16A)

### ET/EH/BT/BH/EHB:

\*1. ARM firmware versions 10 and above are required for compatibility.

	Toronomo no ama aborto aro roganioa for							
Battery Brand	Battery Series	Battery Model	ET (5-10kW)*	EH	ВТ	ВН	ЕНВ	ET (15-30kW)
		Mint-JKE5		•		•		
iDetioEdge	Mint-JKE <sup>*1</sup>	Mint-JKE10		•		•		
iPotisEdge	WIIII-JNE	Mint-JKE15	•	•	•	•		
		Mint-JKE20	•	•	•	•		

<sup>\*.</sup> Including ET Series: ET PLUS+, ET PLUS+ (16A)

### 3) Commercial and Industrial Energy Storage Systems

Pottom/ Prond	Pottory Sorios	Pottory Model	Inverte	r Series
Battery Brand	Battery Series	Battery Model	ETC	втс
BYD	BATTERY-BOX Commercial Series	C90	•	•

ET/EH/BT/BH/EHB:

<sup>\*1.</sup> ARM firmware versions 12 and above are required for compatibility.



### **Battery Compatibility Overview**

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

Pattom/ Brand	Pottom, Corios	Pottory Model		Inverter Series	
Battery Brand	Battery Series	Battery Model	A-ES	A-BP	ES-US20
		SECU-S13	•	•	
0 1114/-	050110	SECU-S15	•	•	
GoodWe	SECU-S	SECU-S18	•	•	
		SECU-S20	•	•	
A-ES/A-BP: *1. ARM firmware versions 1	14 and above are required for compatibi	lity.			
Battery Brand	Battery Series	Battery Model	A-ES	A-BP	
		HVL 12.0	•	•	
		HVL 16.0	•	•	
DVD.	D-# D D 10.41.*1	HVL 20.0	•	•	
BYD	Battery-Box Premium HVL*1	HVL 24.0	•	•	
		HVL 28.0	•	•	
		HVL 32.0	•	•	
A-ES/A-BP: *1. ARM firmware versions 1	11 and above are required for compatibi	lity.			
Battery Brand	Battery Series	Battery Model	A-ES	A-BP	
	LBS102100A Series*1	LBS102100A	•	•	
OLOID	LBS153100A Series <sup>*1</sup>	LBS153100A	•	•	
	LBS205100A Series <sup>*1</sup>	LBS205100A	•	•	
A-ES/A-BP: *1. ARM firmware versions 1	14 and above are required for compatibi	lity.			
Battery Brand	Battery Series	Battery Model	A-ES	A-BP	
		Soluna 7K Pack HV	•	•	
Soluna	HV Battery Series*1	Soluna 10K Pack HV	•	•	
		Soluna 15K Pack HV	•	•	
A-ES/A-BP: *1. ARM firmware versions 1	10 and above are required for compatibi	lity.			
Battery Brand	Battery Series	Battery Model	A-ES	A-BP	
	RESU Type-R Series*2*3	RESU10H_Type-R	•	•	
LG	DECLI Driver - O - vie - M	RESU10H Prime	•	•	•
	RESU Prime Series*1	RESU16H Prime	•	•	•

- \*1. ARM firmware versions 20 and above and DSP versions 02 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 5 kVA 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.