GOODWE
Smart Energy Innovator

APPROVED BATTERY OPTIONS STATEMENT

This statement covers all GoodWe energy storage products. Please find details below.
Only batteries listed below are approved for connection to GoodWe storage inverters.

Low-voltage Energy Storage System

Battery Brand	Battery Series	Battery Model	Inverter Series					
			ES	EM	SBP	ES G2	SBP G2	BP
GOODWE	SECU-A	SECU-A5.4L	●	●	●	●	●	●
	Lynx Home U[*1]	LX U5.4-L	●	●	●	●	●	●

ES/EM/SBP/BP:
*1. ARM firmware versions 11 and above are compatible with Lynx Home U Series battery.

Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
BYD	Battery-Box Pro Series[*1]	-	●	●	●	●	●	●
	Battery-Box Res Series[*1]	-	●	●	●	●	●	●
	Battery-Box LV Series[*2]	-	●	●	●	●	●	●
	Battery-Box Premium LVL[*2]	LVL 15.4	●	●	●	●	●	●
	Battery-Box Premium LVS Series[*2]	-	●	●	●	●	●	●

ES/EM/SBP/BP:
*1. ARM firmware versions 00 and above are compatible with Battery-Box Pro/Res Series.
*2. ARM firmware versions 07 and above are compatible with Battery-Box LV/Premium LVS/Premium LVL Series.

Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
LG	RESU LV Series	RESU 3.3[*1]	●	●		●	●	
		RESU 6.5[*1]	●	●	●	●	●	
		RESU 10[*1]	●	●	●	●	●	
		RESU 12[*2]	●	●	●	●	●	
		RESU 13[*2]	●	●	●	●	●	
		RESU 6.4 EX[*1]	●	●	●	●	●	

ES/EM/SBP:
*1. ARM firmware versions 00 and above are compatible with RESU 6.4 EX/3.3/6.5/10.
*2. ARM firmware versions 07 and above are compatible with RESU 12/13.

Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
PYLON	US2000 Series[*1]	US2000	●	●	●	●	●	●
	US3000 Series[*2]	US3000	●	●	●	●	●	●
	US2000C Series[*1]	US2000C	●	●	●	●	●	●
	US3000C Series[*2]	US3000C	●	●	●	●	●	●
	Force L1 Series[*2]	Force-L1	●	●	●	●	●	
	Force L2 Series[*2]	Force-L2	●	●	●	●	●	

ES/EM/SBP/BP:
*1. ARM firmware versions 00 and above are compatible with US2000/US2000C Series.
*2. ARM firmware versions 07 and above are compatible with US3000/US3000C/Force L1/Force L2 Series.

Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
DYNESS	DYNESS-LV Series[*1]	DYNESS-LV x1	●	●	●	●	●	●
		DYNESS-LV x2	●	●	●	●	●	●
		DYNESS-LV x3	●	●	●	●	●	●
		DYNESS-LV x4	●	●	●	●	●	●
	POWERBOX F Series[*1]	POWERBOX F-2.5	●	●	●	●	●	●
		POWERBOX F-5.0	●	●	●	●	●	●
		POWERBOX F-7.5	●	●	●	●	●	●
		POWERBOX F-10.0	●	●	●	●	●	●

ES/EM/SBP/BP:
1. ARM firmware versions 07 and above are compatible with DYNESS-LV and POWERBOX F Series.

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Battery Brand	Battery Series	Battery Model	Inverter Series					
			ES	EM	SBP	ES G2	SBP G2	BP
OLOID	LBS051100A Series[1]	LBS051100A-A02	●			●	●	
		LBS051100A-A03	●			●	●	
	LBS051200A Series[1]	LBS051200A-A02	●			●	●	
		LBS051200A-A03	●			●	●	

ES:
*1. ARM firmware versions 12 and above are compatible with LBS051100A and LBS051200A Series.

Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
Soluna	LV(48V) Battery Series	Soluna 4K Pack	●	●	●	●	●	
		Soluna 5K Pack	●	●	●	●	●	
		Soluna EOS 5K Pack	●	●	●	●	●	

Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
ALPHA[1]	Smile5-BAT Series	SMILE5-BAT[2]	●	●	●	●	●	●
	Smile-BAT Series	Smile-BAT-10.1P[3]	●	●	●	●	●	●
		Smile-BAT-10.3P[3]	●	●	●	●	●	●
		Smile-BAT-13.3P[4]	●	●	●	●	●	●
	M48112-P Series	M48112-P[4]	●	●	●	●	●	●
	M48100-P Series	M48100-P[4]	●	●	●	●	●	●

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 compatible with Smile5-BAT Series.
*3. ARM firmware versions 10 and above are compatible with Smile-BAT-10.1P/Smile-BAT-10.3P.
*4. ARM firmware versions 11 and above are compatible with Smile-BAT-13.3P/M48112-P/M48100-P.

Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
Tecloman	Firefly Series[1]	Firefly-3.6K	●	●	●	●	●	
		Firefly-7.2K	●	●	●	●	●	
		Firefly-10.8K	●	●	●	●	●	
		Firefly-14.4K	●	●	●	●	●	
		Firefly-18.0K	●	●	●	●	●	
		Firefly-21.6K	●	●	●	●	●	
		Firefly-25.2K	●	●	●	●	●	

ES/EM/SBP:
*1. ARM firmware versions 12 and above are compatible with Firefly Series.

Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
SolarMD	SolarMD SS Series	-		●		●	●	

Battery Brand	Battery Series	Battery Model	ES	EM	SBP	ES G2	SBP G2	BP
UZENERGY	L051100-A Series	L051100-A[1]	●	●	●	●	●	

ES/EM/SBP:
*1. ARM firmware versions 12 and above are compatible with UZENERGY L051100-A Series.

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Battery Brand	Battery Series	Battery Model	Inverter Series					
			ET	EH	BT	BH	EHB	ET15~30K
GOODWE	Lynx Home S*1	LX S7.5-H		●		●	●	
		LX S10-H	●	●	●	●	●	
		LX S13-H	●	●	●	●	●	
		LX S15-H	●	●	●	●	●	
		LX S18-H	●	●	●	●	●	
		LX S20-H	●	●	●	●	●	
	LX F-H*2	LX F6.6-H	●	●	●	●	●	●
		LX F9.8-H	●	●	●	●	●	●
		LX F13.1-H	●	●	●	●	●	●
		LX F16.4-H	●	●				●

ET/EH/BT/BH/EHB:
*1. ARM firmware versions 14 and above are compatible with SECU-S/Lynx Home S Series battery.
*2. ARM firmware versions 19 and above are compatible with Lynx Home F Series battery.

Battery Brand	Battery Series	Battery Model	ET	EH	BT	BH	EHB	ET15~30K
BYD	Battery-Box HV Series*1	5.0-10.0	●	●	●	●		
	Battery-Box Premium HVM*2	HVM 8.3		●		●	●	
		HVM 11.0	●	●	●	●	●	●
		HVM 13.8	●	●	●	●	●	●
		HVM 16.6	●	●	●	●	●	●
		HVM 19.3	●	●	●	●	●	●
		HVM 22.1	●	●	●	●	●	●
	Battery-Box Premium HVS*2	HVS 5.1	●	●	●	●	●	●
		HVS 7.7	●	●	●	●	●	●
		HVS 10.2	●	●	●	●	●	●
		HVS 12.8	●	●				●

ET/EH/BT/BH/EHB:
*1. ARM firmware versions 07 and above are compatible with Battery-Box HV Series. Please note that the nominal voltage of Battery-Box HV Series must be within the Battery Voltage Range of GoodWe inverters.
*2. ARM firmware versions 11 and above are compatible with Battery-Box Premium HVM/HVS.
*3. ARM firmware versions 02 and above are compatible with BYD HVM/HVS. BYD CAN sequence is different from GoodWe. BYD CAN sequence is 1-CANH, 2-CANL. GoodWe CAN sequence is 4-CANH, 5-CANL.

Battery Brand	Battery Series	Battery Model	ET	EH	BT	BH	EHB	ET15~30K
LG	RESU FLEX Series*1	FLEX 8.6	●					
		FLEX 12.9	●					
		FLEX 17.2	●					
	RESU Type-R Series	RESU10H_Type-R					●	
	RESU Prime Series*2	RESU10H Prime					●	
		RESU16H Prime					●	

ET/EH/BT/BH/EHB:
*1. The RESU FLEX Series is only compatible with ET PLUS+ Series, and the ARM firmware versions must be 23 and above.
*2. ARM firmware versions 20 and above and DPS versions 02 and above are compatible with RESU Prime Series.

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Battery Brand	Battery Series	Battery Model	Inverter Series					
			ET	EH	BT	BH	EHB	ET15~30K
PYLON	Powercube H1 Series	POWERCUBE-H1-48[*1*3]	●	●	●	●		●
	Force H1 Series[*2*3]	Force-H1	●	●	●	●	●	●
	Force H2 Series[*2*3]	Force-H2	●	●	●	●	●	●

ET/EH/BT/BH/EHB:
*1. ARM firmware versions 07 and above are compatible with POWERCUBE-H1-48 Series. 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 compatible with Force-H1/H2 Series. 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 compatible with Force H1/H2 Series and Powercube H1.

Battery Brand	Battery Series	Battery Model	ET	EH	BT	BH	EHB	ET15~30K
DYNESS	Tower Series[*1]	Tower T7		●		●	●	
		Tower T10	●	●	●	●	●	
		Tower T14	●	●	●	●	●	
		Tower T17	●		●			

ET/EH/BT/BH/EHB:
*1. ARM firmware versions 10 and above are compatible with Tower Series.

Battery Brand	Battery Series	Battery Model	ET	EH	BT	BH	EHB	ET15~30K
Soluna	HV Battery Series[*1*2]	Soluna 7K Pack HV		●		●		
		Soluna 10K Pack HV	●	●	●	●		
		Soluna 15K Pack HV	●		●			

ET/EH/BT/BH/EHB:
*1. ARM firmware versions 10 and above are compatible with Soluna HV Battery Series.
*2. Soluna HV Battery Series don't have UL9540 certificate.

Battery Brand	Battery Series	Battery Model	ET	EH	BT	BH	EHB	ET15~30K
iPotisEdge	Mint-JKE[*1]	Mint-JKE5		●		●		
		Mint-JKE10		●		●		
		Mint-JKE15	●	●	●	●		
		Mint-JKE20	●	●	●	●		

ET/EH/BT/BH/EHB:
*1. ARM firmware versions 12 and above are compatible with iPotisEdge Mint-JKE Series.

Battery Brand	Battery Series	Battery Model	Inverter Series	
			ETC	BTC
BYD	BATTERY-BOX Commercial Series	C90	●	●

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Battery Brand	Battery Series	Battery Model	Inverter Series		
			A-ES	A-BP	ES-US20
GoodWe	SECU-S	SECU-S13	●	●	
		SECU-S15	●	●	
		SECU-S18	●	●	
		SECU-S20	●	●	

A-ES/A-BP:
*1. ARM firmware versions 14 and above are compatible with SECU-S Series.

Battery Brand	Battery Series	Battery Model	A-ES	A-BP	
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 compatible with Battery-Box Premium HVL.

Battery Brand	Battery Series	Battery Model	A-ES	A-BP	
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 compatible with LBS102100A/LBS153100A/LBS205100A Series.

Battery Brand	Battery Series	Battery Model	A-ES	A-BP	
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 compatible with Soluna HV Battery Series.
*2. Soluna HV Battery Series don't have UL9540 certificate.

Battery Brand	Battery Series	Battery Model	A-ES	A-BP	
LG	RESU Type-R Series[*2*3]	RESU10H_Type-R	●	●	
	RESU Prime Series[*1]	RESU10H Prime	●	●	●
		RESU16H Prime	●	●	●

A-ES/A-BP:
*1. ARM firmware versions 20 and above and DPS versions 02 and above are compatible with RESU Prime Series.
*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.