APPROVED BATTERY OPTIONS STATEMENT

GOODWE YOUR SOLAR ENGINE

This statement covers all GoodWe energy storage products. Please find details below.

Only batteries listed below are approved for connection to GoodWe storage inverters.

Battery Brand	Battery Series	Battery Model	Inverter Series							
			ES	EM	BP	SBP	ET	BT	EH	BH
BYD	Battery-Box Premium HVM*1	HVM 8.3							●	●
		HVM 11.0					●	●	●	●
		HVM 13.8					●	●	●	●
		HVM 16.6					●	●	●	●
		HVM 19.3					●	●	●	●
		HVM 22.1					●	●		
	Battery-Box Premium HVS*1	HVS 5.1					●	●	●	●
		HVS 7.7					●	●	●	●
		HVS 10.2					●	●		
		HVS 12.8					●	●		
	Battery-Box Pro*2		●	●		●				
	Battery-Box Res*2		●	●		●				
	Battery-Box LV*3		●	●		●				
	Battery-Box HV*4						●	●	●	●

Note:

1. ARM firmware versions 11 and above are compatible with Battery-Box Premium HVM/HVS.
2. ARM firmware versions 00 and above are compatible with Battery-Box Pro/Res Series.
3. ARM firmware versions 07 and above are compatible with Battery-Box LV Series.
4. ARM firmware versions 07 and above are compatible with Battery-Box HV Series. Please note that the normal voltage of Battery-Box HV Series must be within the Battery Voltage Range of GoodWe inverters; Battery-Box H 11.5 is not compatible with EH/BH due to voltage mismatch.

Battery Brand	Battery Series	Battery Model	Inverter Series							
			ES	EM	BP	SBP	ET	BT	EH	BH
LG	RESU	RESU 6.4 EX*1	●	●		●				
		RESU 3.3*1	●	●						
		RESU 6.5 *1	●	●		●				
		RESU 10*1	●	●		●				
		RESU 13*2	●	●		●				

Note:

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 13.

APPROVED BATTERY OPTIONS STATEMENT

Battery Brand	Battery Series	Inverter Series							
		ES	EM	BP	SBP	ET	BT	EH	BH
PYLON*4	US2000*1	●	●	●	●				
	US3000*2	●	●		●				
	POWERCUBE-H1-48*3					●	●	●	●

Note:

1. ARM firmware versions 00 and above are compatible with US2000 Series.
2. ARM firmware versions 07 and above are compatible with US3000 Series.
3. ARM firmware versions 07 and above are compatible with POWERCUBE-H1-48 Series. Please note that the voltage of POWERCUBE-H1-48 Series must be within the Battery Voltage Range of GoodWe inverters. Maximum 8 units for EH/BH, and 10 units for ET/BT.
4. Only PYLON is approved for connection to the old BP model with SN starting with "3".

Battery Brand	Battery Series	Inverter Series							
		ES	EM	BP	SBP	ET	BT	EH	BH
ALPHA-ESS*1	Smile5-BAT*2	●	●		●				
	Smile-BAT-10.1P*3	●	●		●				
	Smile-BAT-10.3P*3	●	●		●				

Note:

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 04 and above are compatible with Smile5-BAT.
3. ARM firmware versions 07 and above are compatible with Smile-BAT-10.1P and Smile-BAT-10.3P.

Battery Brand	Battery Model	Inverter Series							
		ES	EM	BP	SBP	ET	BT	EH	BH
Soluna	Soluna 15K Pack HV					●			

Note:

1. ARM firmware versions 07 and above are compatible with Soluna 15K Pack HV.

Battery Brand	Battery Series	Battery Model	Inverter Series							
			ES	EM	BP	SBP	ET	BT	EH	BH
DYNESS	B4850*¹	B4850	●	●		●				
	POWERBOX F*¹	POWERBOX F-2.5	●	●		●				
		POWERBOX F-5.0	●	●		●				
		POWERBOX F-7.5	●	●		●				
		POWERBOX F-10.0	●	●		●				
	Tower*²	DYNESS T7					●	●	●	●
		DYNESS T10					●	●	●	●
		DYNESS T14					●	●	●	●
		DYNESS T17					●	●	●	●

Note:

1. ARM firmware versions 07 and above are compatible with B4850 and POWERBOX F Series.

2. ARM firmware versions 07 and above are compatible with Tower Series.

Specific Terms

Procedures for approved use of new lithium batteries not listed herein

❶ GoodWe conditionally provides CAN communication protocol of BMS, upon request.

❷ Based on the communication protocol provided by GoodWe, the battery supplier is required to firstly test compatibility with GoodWe inverters.

❸ GoodWe shall further conduct and verify the compatibility test with the new battery to determine the final approval. The list is subject to changes and updates will be published from time to time. Please contact GoodWe for technical consultation on new batteries not on the approved list to verify if any compatibility test is required. Any unauthorized battery connections made without prior authorization from GoodWe will NOT be covered by GoodWe limited warranty.

* Other Terms

4 Users are reminded that although GoodWe products ES, EM, BP and SBP series are technically compatible and capable of achieving good results with lead-acid batteries, Lithium-ion batteries with direct communication to the charging device are the preferred battery choice. Use of lead-acid or other similar batteries requires experienced and precise design, installation and maintenance to keep the battery working functionally. Failing to do may lead to battery failure, compatibility issue or other damages to the solar system. Users should first contact GoodWe for technical consultation and obtain official confirmation prior to installing any battery not included in the official published compatibility list, including but not limited to lead-acid battery.

5 Unless there is a specific agreement between GoodWe and the battery manufacturer, for all battery packs NOT listed herein but have completed the compatibility test with GoodWe inverters, the installer/system integrator shall be responsible for battery safety, as well as system performance and reliability. GoodWe shall guarantee proper inverter performance under normal working conditions within the standard warranty term and provide limited technical support if applicable. However, GoodWe shall assume no liability on any system malfunction or any incurred loss or damages whatsoever.

6 Failing to follow the instructions above or failing to provide correct battery information will render GoodWe's warranty null and void. Goodwe shall NOT be liable for any consequences arising therefrom. Goodwe reserves the right of final interpretation.

GoodWe-Battery statement-20200729-EN-V5.0. Information may be subject to change without notice during product improving.

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