

Need to extend battery capacity to ES-2000?

All-In-One Energy System for vehicles and mobile use

How to extend battery capacity from 100Ah up to 600Ah



How to connect additional battery capacity

AWILCO ES-2000 has the unique feature that the system battery capacity can be extended from the built-in 100Ah up to 600Ah of capacity (adding a total of max 5 extra 100Ah batteries), offering longer runtime and higher autonomy for the user.

Note: It is important that you ONLY use the AWILCO battery LFP12100BM, and it is important you only connect additional batteries to the system in parallel. Connecting additional batteries in serial to ES-2000 will damage the components and warranty will void.

Overview connection guides:

- Extend ES-2000 with one LFP12100BM battery
- Extend ES-2000 with two or more LFP12100BM batteries
- The connector housing and cable assembly
- AWILCO Smart Battery Bluetooth app

AWILCO offers 100Ah lithium batteries which can be serially connected to ES-2000



LFP12100BM Battery



LBXM Cable kit



ES-2000 Energy system

How to connect additional batteries to ES-2000 in parallel

You can connect one or more LFP12100BM batteries to your ES-2000 Energy System. Note: Only one cable per connector is necessary, please do observe that both terminal slots in the connector must be filled - please refer to photos and explanation on how to insert uncrimped terminal below.



How to extend ES-2000 with one battery

1. Connect the black connector on ES-2000 to the black connector on LFP12100BM, by means of the supplied connectors and the black cable from the cable kit
 2. Connect the red connector on ES-2000 to any of the red connectors on LFP12100BM
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How to extend ES-21000 with up to 5 batteries in parallel

1. Connect the red connector on ES-2000 to any of the red connectors on the LFP12100BM closest to ES-2000, by means of the supplied connectors
2. Connect the negative black cable, use the black connector on ES-2000 to the black connector on LFP12100BM farthest from ES-2000
3. The black connector house on the farthest LFP12100BM must contain both the cable from ES-2000 and the next farthest battery

4. Connect the following batteries from red to red and black to black until all batteries are connected in serial
 5. Or you can connect the positive cable to the LFP12100BM battery farthest from ES-2000 and the negative cable to the LFP12100BM battery closest to ES-2000
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How to insert the uncrimped terminal into the connector

1. Observe that the terminal pin must be inserted into the connector housing in a certain way - Locate the circled "G" on both connector housing and terminal pin. Make sure that the circled "G" is orientated in the same direction
 2. Insert the terminal pin until you hear a clear "click", as the securing spring engages with the terminal pin
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How to extract uncrimped terminal from the connector

Note: The following method can be used on both terminal pins with and without cables.

1. Look into the front end of the connector housing, see the terminal pins. Underneath the terminal pins you see the securing spring. Use a small flat head screwdriver to push the securing spring, downwards, away from the terminal pin.

2. Once the spring releases from the terminal pin, the terminal pin can be extracted by pulling from the rear of the connector housing.
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Connector housing

The slot in the connector housing which is NOT used for a cable, must also have a terminal pin inserted, in order for the connector to enter the counter connector correctly. The inserted pin can easily be removed at a later point, should you require using the slot for i.e. additional extension batteries.



AWILCO Smart Battery App

ES-2000 Energy system and LFP12100BM battery both have built-in Bluetooth communication. Download the AWILCO app, and both the energy system and battery are displayed as separate units, allowing the user to overview both units/all batteries in the complete installation.

Please note: It is important that you ONLY use the AWILCO battery LFP12100BM, and it is important you only connect additional batteries to the system in parallel. Connecting additional batteries in serial to ES-2000 will damage the components and warranty will void. For more information please contact us on tele: + 45 5656 5400