

NEW FUSION SOLAR RESIDENTIAL ENERGY STORAGE SYSTEM IP66

Smart String Energy Storage System

High voltage lithium battery compatible with Fusion Solar residential inverters **SUN2000-(2-6) KTL-L1** and **SUN2000-(3-10KTL)-M1**. Supports mainly grid tied mode and other multiple working modes such as , grid-tied and off-grid, pure off-grid multi-scenario, self-consumption, time-of-use, and full feed-in to the grid modes. The modular system consists of a “Power Control Module” block on top and battery modules which are stackable together. This allows for easy and quick installation. Each battery pack has a built-in energy optimizer and supports independent charge and discharge management. The optimization system allows new and old battery modules to be mixed in one system and still operate at their optimum capacity.



Power Modules

Code	LUNA2000-5-C0
Description	Interfaces battery modules to the inverter
Max Battery Module Support	3(15KWh)
Power Module weight	12 kg
Module Dimension	670 x 150 x 240mm

Battery Module - Lithium-iron phosphate (LiFePO4)

Code	LUNA2000-5KW-E0
Module energy	5 kWh
Max. Output Power/ Peak	2.5 KW / 3.5KW
Module Weight	50 kg
Module Dimension	670 x 150 x 360mm

Battery Strings

The battery supports power and capacity expansion. One power control module supports a maximum of three battery expansion modules , scalable from 5kWh to 15kWh and two power control modules can be connected in parallel to give up-to 30KWh

- 100% depth of discharge (DoD)
- More usable energy with pack level energy optimization
- Safe & reliable performance with Lithium Iron Phosphate (LFP) cell
- Auto detected by App
- Compatible with both single & three phase inverter
- Faulty battery module auto isolates to keep system operating
- Standard guaranty 10 years



NEW BACK-UP BOX

Fusion Solar - Backup Box IP65 - Automatic detection & switchover to provide backup power to critical loads

The Backup Box is used in a residential rooftop PV plant system to control the inverter grid-tied or off-grid state. When the grid fails, the inverter switches to the off-grid state and supplies power to off-grid loads in backup mode. When the grid recovers, the inverter switches back to the grid-tied state.



Code	BACKUPBOX-B0	BACKUPBOX-B1
AC Output (On Grid)		
Grid Connection	Single Phase: 230VAC	Three Phase: 400VAC
AC Output (Backup)		
Load Connection	Single Phase: 230VAC	Single Phase: 230VAC
Maximum Apparent Power	5000VA	3300VA
Maximum Output Current	22.7A	15.2 A
Switchover Time	< 3s	
AC Input (Inverter)		
Rated Voltage	230VAC / 50Hz	400VAC / 50Hz
Compatible Inverter	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1	SUN2000-3/4/5/6/8/10KTL-M1
General Specification		
Dimensions (W x H x D)	400 x 350 x 130mm	
Weight	11kg	