

## Fusionsolar

# **GTM Enablement Training – LB0**

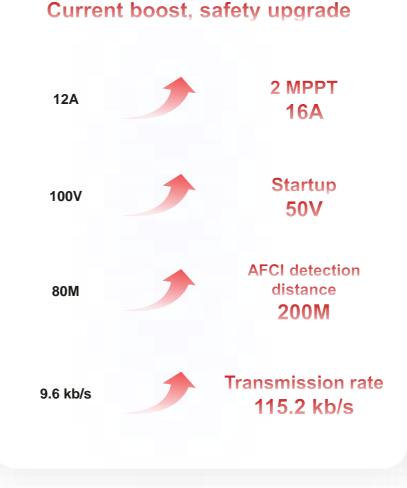
### **A Home that Always Shines**

Residential Distribution Business

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### Newly upgraded single-phase inverter





#### **Battery Ready**



Adapts to all Huawei energy storage products.

Power backup throughout the house, worry-free power consumption





### **New Capabilities**

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Features	L1	LB0
AFCI 2.0	No	Yes
RSD	Yes	Yes
Optimizer	Yes	Yes
2*S1	No	Yes
>13A current Module	No	Yes
Startup voltage 50V	No	Yes





### **Total Cost Comparison of 5kWac Pure PV System**

\* Price shown here is only an example in Spanish market

Data source for

module price:

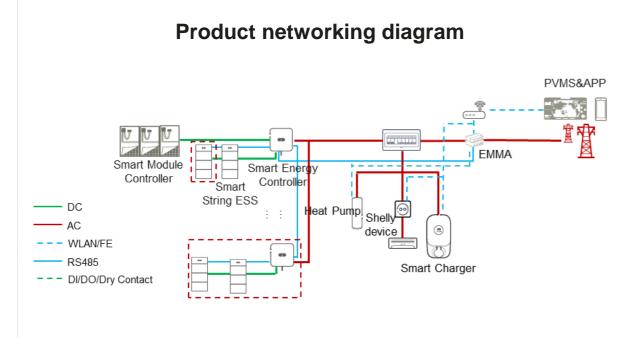
Inverter	Modules	Module Amount	Module Price	Inverter Price	Bracket Price	Bracket Amount	Total cost/€
L1-5KTL	Trina Solar Vertex S <b>410W</b>	14	115.02	595	74	14	3241
LB0-5KTL	Trina Solar Vertex <b>570W</b>	10	143.52	745	74	10	2920

Despite higher inverter price, system cost with LB0 is **10% lower** as that with L1



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## LB0 Single-Phase Inverter Solution: EMMA Networking



#### **Remarks:**

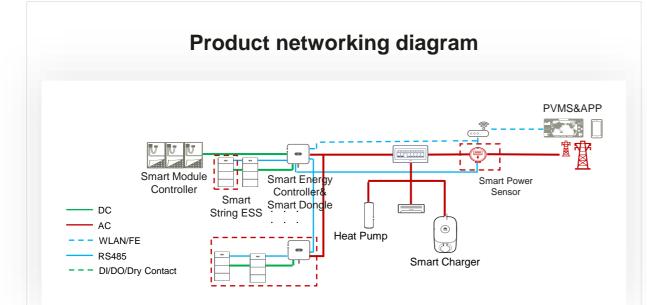
- S0 and S1 cannot be used together in the same inverter. CAN be used together in the same system different inverter.
- The EMMA can use an external meter. For details, see the EMMA User Manual.

### **Solution Configuration Table**

Product	Model	Quantity
Optimizor	SUN2000-450W-P2	Refer to the user
Optimizer	SUN2000-600W-P	manual.
	SUN2000-2-6KTL-L1	
Inverter	Inverter Or: SUN2000-3-6K-LB0	
	Or SUN2000-8/10K-LC0	
F00	LUNA2000-5/10/15-S0	≤ 2 ESSs
ESS	Or: LUNA2000-7/14/21-S1	≥ 2 E335
Charger	SCharger-7KS-S0	≤ 2
EMMA	EMMA-A02	1
heat pump	SG ready	≤ 1
Smart switch	Smart switch Shelly Plus Plug S   Shelly Pro 2PM Shelly Plus 2PM	



## LB0 Single-Phase Inverter Solution: Dongle+Meter Networking



#### **Remarks:**

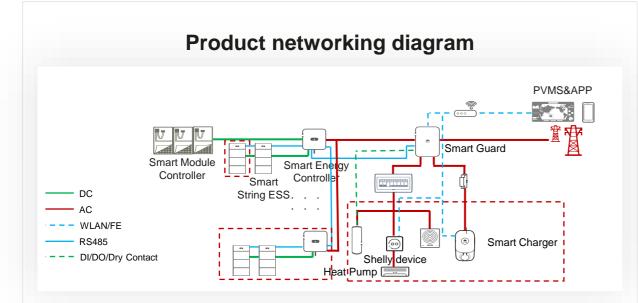
- S0 and S1 cannot be used together in the same inverter. CAN be used together in the same system different inverter.
- In zero-power grid-tied mode, green power is unavailable first.

### **Solution Configuration Table**

Product	Model	Quantity
Optimizer	SUN2000-450W-P2	
	SUN2000-600W-P	manual.
	SUN2000-2-6KTL-L1	
Inverter	Inverter Or: SUN2000-3-6K-LB0	
	Or SUN2000-8/10K-LC0	
Eporavistorado	LUNA2000-5/10/15-S0	≤ 2 ESSs
Energy storage	Or: LUNA2000-7/14/21-S1	≥ 2 E338
Charging pile	SCharger-7KS-S0	≤ 2
Dengle	SDongleA-05	1
Dongle	SDongleB-06	I
Electric meter	YDS60-80, YDS60-C24	1
heat pump	SG ready	≤ 1
Intelligent switch	Shelly Plus Plug S	
	telligent switch Shelly Pro 2PM	
	Shelly Plus 2PM	



### LB0 Single-Phase Inverter Solution: Backup with SmartGuard



#### **Remarks:**

- S0 and S1 cannot be used together in the same inverter. CAN be used together in the same system different inverter.
- In zero-power grid-tied mode, green power is unavailable first.
- The charging post must be connected to the non-backup power port of the SmartGuard.

#### **Solution Configuration Table**

Product	Model	Quantity
Optimizer	SUN2000-450W-P2	Refer to the user
	SUN2000-600W-P	manual.
	SUN2000-2-6KTL-L1	
Inverter	Inverter Or: SUN2000-3-6K-LB0	
	Or SUN2000-8/10K-LC0	
Eporavistorado	LUNA2000-5/10/15-S0	≤ 2 ESSs
Energy storage	Or: LUNA2000-7/14/21-S1	≥ 2 E335
Charging pile	SCharger-7KS-S0	≤ 2
Power backup box	SmartGuard-63A-S0	1
heat pump	SG ready	≤ 1
Smart switch	Smart switch Shelly Plus Plug S   Shelly Pro 2PM   Shelly Plus 2PM	



## **Overview of Application Scenarios for LB0**

Scenario	Optimizer	ESS	Networking Controller	Maximal Inverter Cascade Number	Backup
PV-only on-grid	SUN2000-450W-P2 or SUN2000-600W-P		Dongle/ EMMA	3	
PV + ESS on-grid		S0 or S1	Dongle/ EMMA	3	
PV + ESS on-grid/ off-grid		S0 or S1	EMMA	1	SmartGuard S0
PV + ESS off-grid	Not allowed	Dongle S0 or S1	1		
	Not allowed	30 01 31	EMMA	3	

#### **Application Principles:**

- LB0 CAN cascade with other HUAWEI single-phase inverters (L1 or LC0)
- LB0 support S0/S1, each inverter max. 2 stacks (max. 6 battery packs);
- LB0 series is not compatible with BackupBox