

Energy Storage
Smart Household Energy Storage

**All-in-one
Stackable ESS (EU)**

PRODUCT FEATURES

- LiFePO4 battery module, Single module is 51.2V 100Ah.
- 1 to 3 layers recommended.
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Life Cycle and Power.
- Applicable on grid or hybrid on and off-Grid solar energy storage system.
- Self-Consumption Optimization for Residential and Commercial Applications.
- Modular Design Simplifies Transport and Installation.

APPLICATION SCENARIO



Villa



Communication
base station



Nomadic area



Farm



Household



Field power
supply



Technical Specifications-All-in-one Stackable ESS (EU)

Technical Specification	YL-ESSD-10K-200L1C-EU	YL-ESSD-15K(20K)-300L2C-EU		YL-ESSD-25K(30K)-300L3C-EU	
Battery					
Number of layers	1 layers	2 layers		3 layers	
Model	51.2V / 200Ah	51.2V / 300Ah	51.2 / 400Ah	51.2V / 500Ah	51.2 / 600Ah
Energy	10.24KWh	15.36KWh	20.48KWh	25.60KWh	30.72KWh
Operating Voltage Range	43.2V~56.16V				
Cell technology	Lithium-iron phosphate (LiFePO4)				
Life cycle	6000 times @80%DOD				
Max. charge/discharge current (A)	120A				
Input (PV)					
MAX PV Power (W)	9000				
Max PV voltage (V)	550				
Max input current (input A/input B) (A)	15/15				
Max short current (input A/input B) (A)	20/20				
Start operating voltage (V) 90	90				
MPPT voltage range (V)	70-520				
No.of MPPT trackers	2				
String per MPP tracker	3				
Output(Grid)					
Nominal AC output power (W)	6000				
Max. AC output apparent power (VA)	6000				
Max.AC output power (PF=1) (W)	6000				
Max. AC output current (A)	27.2				
Rated AC voltage (V)	220				
AC voltage range (V)	150-300 (adjustable)				
Rated grid frequency (Hz)	50/60				
AC frequency range (Hz)	45-55/55-65 (adjustable)				
Grid connection	single phase				
Power factor	>0.99 @rated power (adjustable 0.8 LG - 0.8 LD)				
THDI	<3%				
Output(Back-up)					
Nominal output voltage (V)	230				
Nominal output frequency (Hz)	50/60				
Nominal output power (W)	6000				
Nominal output current (A)	260				
Transfer time (ms)	10(typ) / 20(max)				
THDV	THDV <3% @100% R Load				

General Data

Max. operation altitude (m)	4000
Noise emission (dB)	<35
Operating temperature range (°C)	-25°C~60°C
Relative humidity (%)	0~100
Cooling concept	Natural Cooling
Mounting	Wall bracket
Communication	Modbus, RS485, WIFI, 4G
Certification	IEC62109-1&2, IEC62040-1, IEC62477-1

Picture

