



## RESIDENTIAL ESS

### ENP25100/ENP51100 – LV Series



Flexible capacity options,  
2.5kWh ~ 320kWh



Compact size and  
easy installation



High energy density  
and efficiency



Excellent safety of  
LiFePo4 battery cells



Automatically  
assign any host



Auto balance modules  
with different SOC



Compatible with Market Leading  
Single Phase & three phase inverters



Up to 10 Years of Service  
Life > 6000 Cycles

### How to save utility bill from Residential ABC Solar ESS?

#### Products Features

The ABC solar residential energy storage system (RESS) slim type LV series battery packs can work with a solar energy storage systems and optimize system performance, absorb excessive PV electricity and supply power for residence whenever needed. This product can be wall mounted or floor mounted and allows for parallel connection.

#### Application Scenarios

Residential Applications

Small Commercial or industrial application

Micro off-grid systems

#### Datasheet

##### Battery Data

Model No	ENP25100	ENP51100
Normal Voltage	25.6V	51.2V
Normal Capacity	2.56kWh	5.12kWh
Useable Capacity	2.5KWh	5KWh
Operating Voltage	21.2V~28.4V	43.2V~57.6V
Recommended Power Charge/ Discharge current	50A (0.5C)	50A (0.5C)
Max. Power Charge/ Discharge current	100A max (1C)	100A max (1C)
Peak Output current <sup>[1]</sup>	110A (3S)	110A (3S)
Rated Discharging Power	2.6kW	5kW
Max discharging Power	3KW (@SOC20%)	5.5KW (@SOC 20%)
Round-trip Efficiency	≥96%	≥97%
Battery Cell Technology	Lithium Iron Phosphate (cobalt-free)	

##### General Data

Dimension (W/D/H)	450x380x89 mm	450x560x89 mm
Weight	20Kg	42Kg
IP Protection	IP21	IP21
Environment	Indoor	Indoor
Working Temperature Discharge	-20°C ~ +55°C	-20°C ~ +55°C
Working Temperature Charge	0°C ~ +55°C	0°C ~ +55°C
Storage Temperature	-20°C ~ +50°C	-20°C ~ +50°C
Installation	Wall mount , Rack, Floor Stand	

##### Features

Cycle Life <sup>[2]</sup>	> 6000 Cycles	> 6000 Cycles
Scalability	Max 16Packs (6+N Communication)	Max 64Packs (6+N Communication)
Communication ports	CAN / Rs485	CAN / Rs485
Warranty	5~10 Years (optional)	5~10 Years (optional)

IEC62619, CE, UN38.3, UL1973, IEC61000

[1] Charge derating will occur between -10 °C and +45 °C;

[2] Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD

Fast and Easy placement,  
save time and place.

#### MULTIPLE PLACEMENTS



Wall-mount



Vertical mount



Cabinet



Rackmount