



## Feature

- IP55 outdoor enclosure
- High safety LFP lithium battery
- BMS battery management system
- EMU local control & monitoring unit
- Air conditioner & FFS system
- Standardization product
- Modular design for “Plug & Play”
- Long life battery system (up to 5000 cycle life)

## Applications

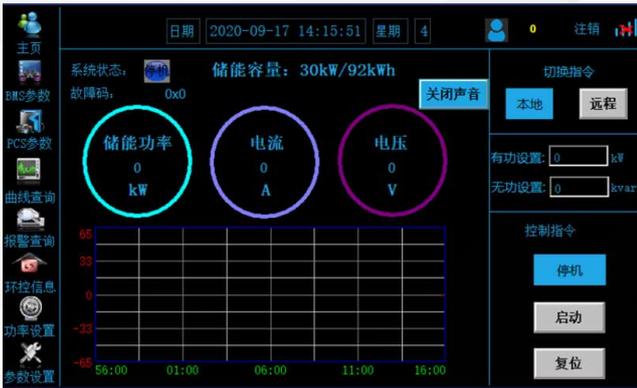
- Outdoor design + Low footprint for anywhere installation
- Modular design for “Plug & Play”
- Long life battery system (up to 5000 cycle life)
- Ready for cloud management platform access

## Specification

Model	30-ESS
<b>Battery Data (LFP 240S1P)</b>	
Battery Nominal Voltage [VDC]	768
Battery Nominal Capacity [Ah]	120
Battery Nominal Energy [kWh]	92
Max. Charge Current [A]	120
Max. Discharge Current [A]	120
<b>AC Data (Grid-Tied)</b>	
Grid Type	3P+PE/3P+N+PE
Nominal Grid Voltage [VAC]	380/400/415VAC
Voltage Range	-20% ~ +10%
Rated Power [kW]	30
Nominal Grid Frequency [Hz]	50/60
Nominal THDi	≤3% @ 100% load
Power Factor	0.99
<b>AC Output Data (Off-Grid)</b>	
Voltage regulation	±1%
Frequency regulation	±0.2Hz
Output THD	≤3% @ 100% linear load
Overload Capacity	≤105%continuous; ≤125% 60s; >125%, 200ms
Isolation	Optional output transformer
<b>General Data</b>	
Efficiency	Up to 97.1%
Noise	<68dB
Cooling Method	Air conditioner
Degree of protection	IP55
Communication Interface	RS485, CAN, Ethernet
Communication protocol	ModBus RTU / CAN / ModBus TCP
<b>Agency Compliance</b>	
Safety	CE
EMC	Class A
Dimension (W × H × D)	1570 × 1190mm × 1850mm
Weight	1700 Kg

## | Energy Brick- HMI Display

Home Page



Battery Status



PCS Status



Data Record



Warning Records



Environment



Output Settings



Parameter Settings



## | Energy Brick- LCD Display Appearance

	Data Sheet
Battery Type	LFP
Energy [kWh]	4.6
Capacity [Ah]	120
Nominal Voltage [VDC]	38.4
Voltage Range [VDC]	32.5~43.8
Cycle life	80% DOD 5000 times @ standard condition
Dimension [W×H×D]	435 × 115 × 600
Weight [kg]	40



## | Distributed VS Centralized



	Centralized	Distributed
Space	Large	Small
Investment	High	Low
Customize	Project Based	Standardization
Risk (Capital & Safety)	Centralized	Distributed
O&M Cost	High	Low
Cloud Service	Exclude	Include
Business Model	Traditional	Innovative

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All product specifications are subject to change without notice.

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