BYD Emergency Power System(EPS)

BYD EPS-1500

About BYD EPS-1500

The system is the best renewable energy storage solution for areas with unreliable grid, thanks to BYD high efficient and environmentally-friendly Lithium-ion Iron-Phosphate battery technology and its strong IT vertical integration capability.

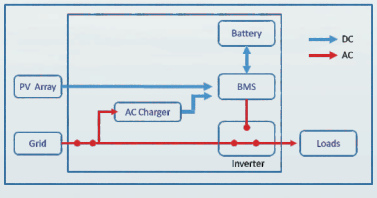
Production Information

BYD Emergency Power System-1500 is specially designed for emergency energy application by using both solar and grid input, with all components in one portable carrying case, 1500W output power and 2400Wh Battery Energy could fulfilling all the basic energy demand for Homes, Businesses, and Government Agencies.

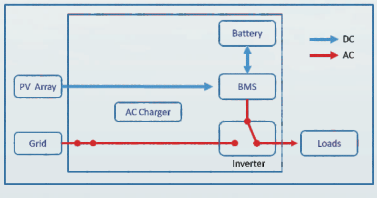
System Topology Diagram

AC input Mode: The system will work in the bypass mode as long as grid is available. If there is an interruption to grid, battery will substitute the grid and enable a support supply to the loads.
PV input Mode: Under the solar priority mode, the priority of input source chosen is PV panel >Battery>Grid, as long as there is solar energy, the loads will be powered by PV and surplus solar energy will be charged in battery.
Save Energy Mode: Set the time to manage the charge and discharge of the battery by user.

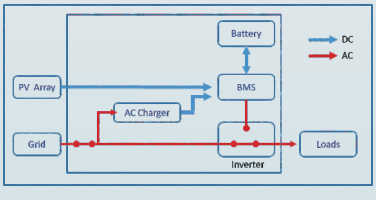
AC input mode



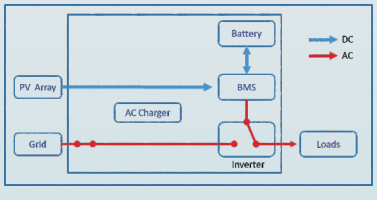
PV input mode



Save energy mode——charge time



Save energy mode——discharge time



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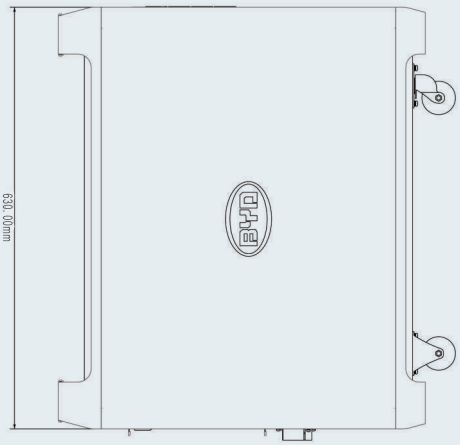
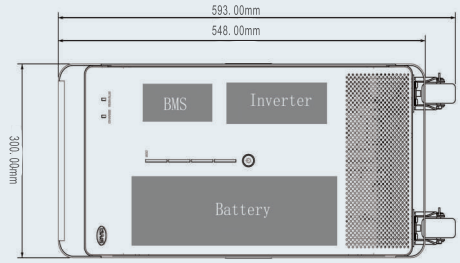


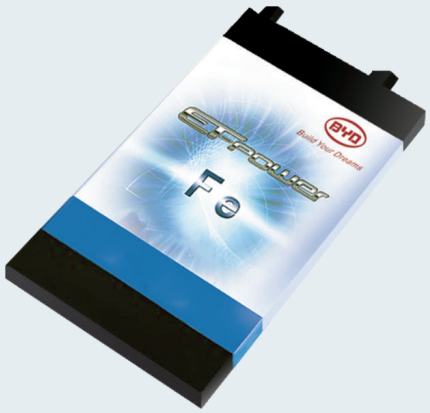


System Parameters

Product Name		EPS-1500
Battery type		Lithium iron phosphate battery
Battery volume		2.4 KWh
Output power		1.5KW （pure resistant load）
AC input	Phase	Single phase 3 wire （fire wire, zero wire and ground wire）
	Voltage	100/110/115/120V ± 15%; 200/220/230/240V± 15%
	Frequency	50/60 Hz
	Charge time	5 hours
AC charger	Output voltage	57V DC
	Output current	10A DC
Solar energy input	Max Voltage	75V DC
	Max Current	35A DC
AC output	Phase	Single phase 3 wire （fire wire, zero wire and ground wire）
	Voltage	100/110/115/120V ± 3%; 200/220/230/240V± 3%
	Frequency	50/60 Hz ±1Hz
Display		LCD
Noise		<40db
Size		Width 250*height 548*depth 630 mm
Weight		68Kg
Installation location		Indoor
Working temperature		0℃~40℃
Storage temperature		-10℃~45℃

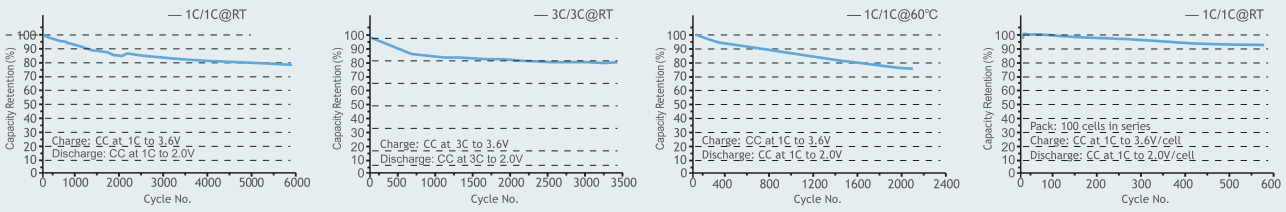
Features

- Extremely short charge time-Less than 5 hours
- RS232 port is available to monitor the system information by users
- System battery are expandable by using system inparallel
- Buzzer beeps when battery SOC is low: At 10% and 5% low battery situation
- Adjustable two operating modes are flexibly set by users



BYD Lithium-ion Iron-Phosphate (Fe) Battery Module

Life Cycle Tests



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