BYD Emergency Power System

EPS-3000

Based on the BYD High efficient Fe battery technology and perfect IT resource integration.BYD provide the best renewable energy solution for unreliable utility grid area.—BYD EPS-3000

BYD Emergency Power System-3000 is specially designed for emergency energy application by using both solar and grid input, with all components in one portable carrying case, 3000W output power and 7200Wh&4800Wh Battery Energy could fulfilling all the basic energy demand for Home, Business, and Government Agency.

System parameters

	EPS-3000
Battery type	Iron battery
Battery capacity	7200Wh or 4800Wh
Output power	3000VA
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 (7.2kwh)：6 hrs(100V system)/3 hrs(200V system)
	Charge time (4.8kwh)：4 hrs(100V system)/2 hrs(200V system)
AC charger	Output voltage：56V DC
	Output current：25A DC(100V system)/50A DC(200V system)
PV input	Max voltage：85V DC
	Max current：60A 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
Display	LCD
Noise	<65db
Dimension	Width 475*height 833*depth 655 mm
Weight	190Kg（7.2KWh）、150Kg(4.8KWh)
IP level	IP20
Working temperature	0℃~40℃
Storage temperature	-10℃~45℃

Network Power System, Division 2, BYD **Ver 05, 01/2013**

Address: No.1 Baoping Road, Baolong Industrial Town, Longgang Shenzhen, 518116, China

E-mail：netpower@byd.com Http://www.bydit.com

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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 in parallel
- Buzzer beeps when battery SOC is low: At 10% and 5% low battery situation
- Adjustable two operating modes are flexibly set by users

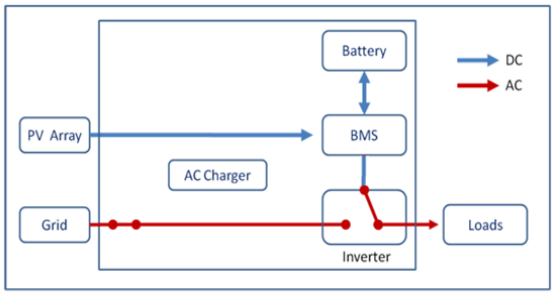
  AC input Mode: The system will work in the bypass mode as long as grid is available. If there is an interruption to grid , battery will substitute the grid and enable a support supply to the loads.

  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.

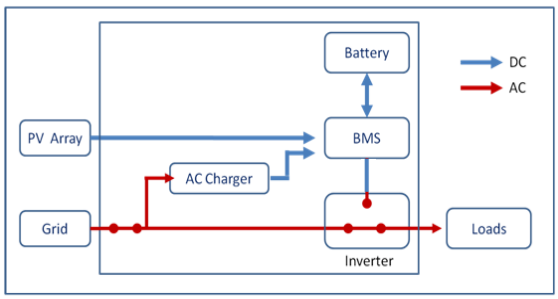
  Save Energy Mode: Set the time to manage the charge and discharge of the battery by user.

System Topology Diagram

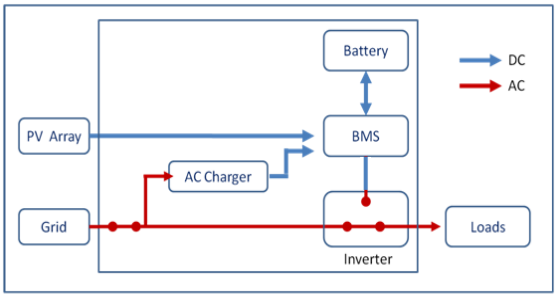
PV input mode



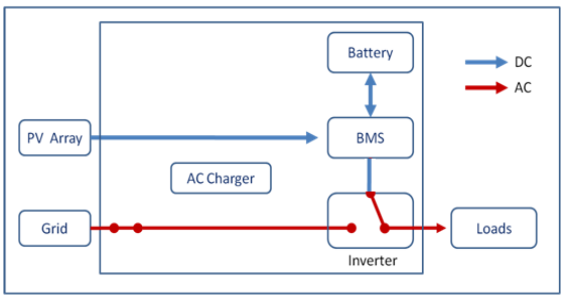
AC input mode



Save energy mode——charge time



Save energy mode——discharge time



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