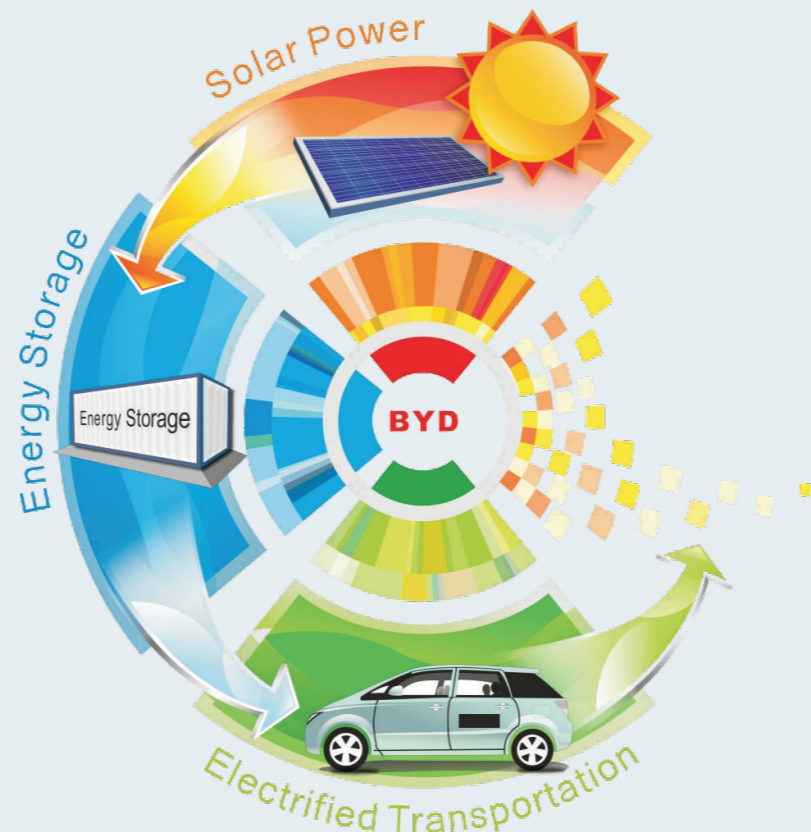
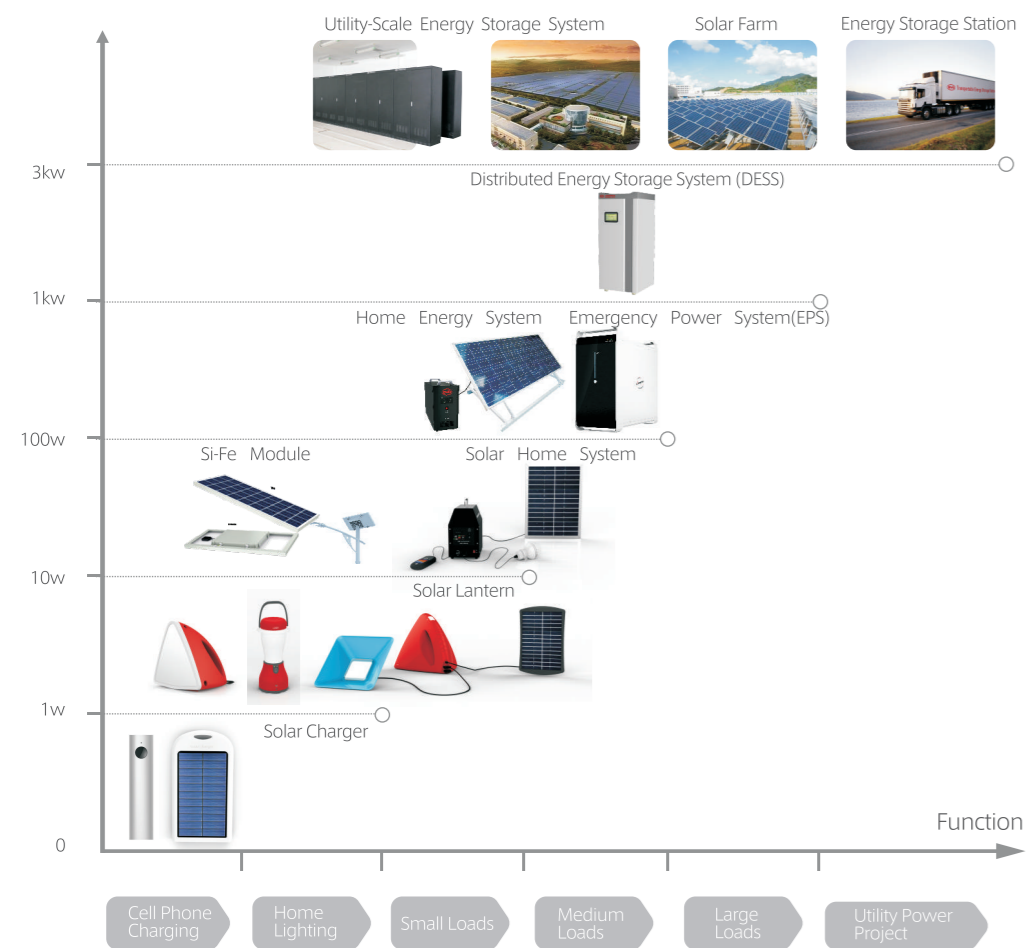




# BYD Energy Storage System

## BYD Energy Storage Total Solution

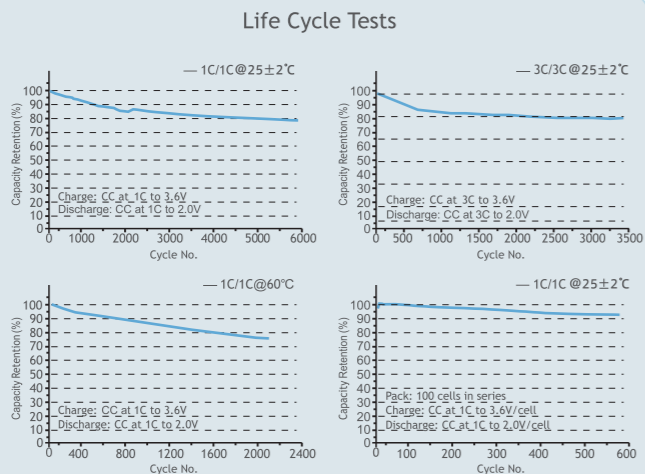


BYD Energy Storage Total Solution is Based on Our Advanced Fe Battery Technology.

Build Your Dreams

## EPS+DESS BYD Home-based Energy Storage Solution

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



- More than 6,000 cycles life
- High energy output and high energy density
- Good performance in high temperature
- Excellent consistency

### About BYD

Established in 1995, BYD is a top high-tech enterprise in China specializing in IT, automobile, and new energy. BYD is the largest supplier of rechargeable batteries in the globe, and has the largest market share for Nickel-cadmium batteries, handset Li-ion batteries, cell-phone chargers and keypads worldwide. It also has the second largest market share for cell-phone shells in the globe. BYD Auto becomes the most innovative independent national auto brand and leads the field of electric vehicles with unique technologies. In the field of new energy, BYD has developed green products such as solar farm, battery energy storage station, electric vehicle, and LED, etc. It will continue to lead the new energy revolution in the world!

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Discover more about BYD on



# BYD EPS

EPS-1500W EPS-3000W



## EPS-1500/3000

BYD Emergency Power System(EPS) is specially designed for emergency energy application by using both solar and grid input, with all components in one portable carrying case, It can fulfill all the basic energy demand for Homes, Businesses, and Government Agencies.

### Features

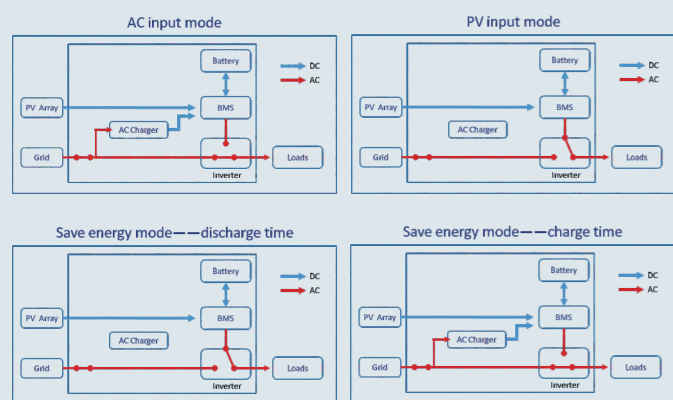
- Extremely short charge time—Less than 6 hours
- Rs232 port is available to monitor the system information by users
- System battery are expandable by using system in parallel
- Buzzer beeps when battery SOC is low: At 10% and 5% low battery situation
- Adjustable two operating modes are flexibly set 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:

Specially designed for the areas which have fluctuate electricity price, user could set the time to manage charge/discharge of the battery.

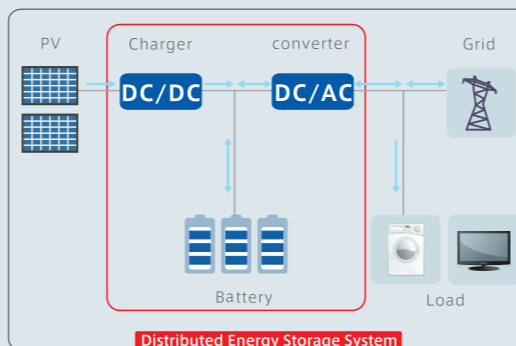


### System Parameters

		EPS-3000	EPS-1500
Battery type		Lithium iron phosphate battery	Lithium iron phosphate battery
Battery capacity		7.2KWh 4.8KWh 2.4KWh (optional)	2.4 KWh
Output power		3.0KW (pure resistive load)	1.5KW (pure resistant load)
AC input	Phase	Single phase 3 wire (fire wire, zero wire and ground wire)	Single phase 3 wire (fire wire, zero wire and ground wire)
	Voltage	100/110/115/120V ± 15%; 200/220/230/240V ± 15%	100/110/115/120V ± 15%; 200/220/230/240V ± 15%
	Frequency	50/60 Hz	50/60 Hz
	Charge time	6 hours (100V system) / 3 hours (200V system)	5 hours
AC charger	Output voltage	57V DC	57V DC
	Output current	25A DC (100V system) / 50A DC (200V system)	10A DC
	Solar energy		
Max Voltage		75 V DC	75 VDC
	Max Current	35 A DC	35 VDC
input	Power	(230W*2) N(N=1~4)	230W*N(N=2~6)
	Phase	Single phase 3 wire (fire wire, zero wire and ground wire)	Single phase 3 wire (fire wire, zero wire and ground wire)
	Voltage	100/110/115/120V ± 3%; 200/220/230/240V ± 3%	100/110/115/120V ± 3%; 200/220/230/240V ± 3%
AC output	Frequency	50/60 Hz ± 1Hz	50/60 Hz ± 1Hz
	Display	LCD	LCD
Noise		<65db	<40db
Size		Width 475* height 795* depth 655mm	Width 300*height 548*depth 630 mm
Weight		190KG(7.2KWh) 150KG(4.8KWh) 110KG(2.4KWh)	68Kg
Installation location		Indoor	Indoor

# BYD DESS-DC

B08P03C04A-E B08P09C0XC-E



It applies to houses which have not installed PV+ inverter

## BYD DESS

BYD Distributed Energy Storage System (DESS) is a new energy power solution which can be used grid interactive and stand alone. An integrated ultra-fast AC transfer switch guarantees that even sensitive back-up loads, like computers, never know when a utility outage occurs. The bi-directional inverter can provide high quality true sine waveform power for the load. And the working mode of the DESS can be selected and adjusted to meet different requirements.

### Characteristics:

- On grid and off grid application available ;
- Excellent power management function, providing unattended power supply solution;
- Easy installation and maintenance ;
- Functioning as UPS to guarantee uninterrupted power supply to the users;
- High security, stability and reliability.

### Applications:

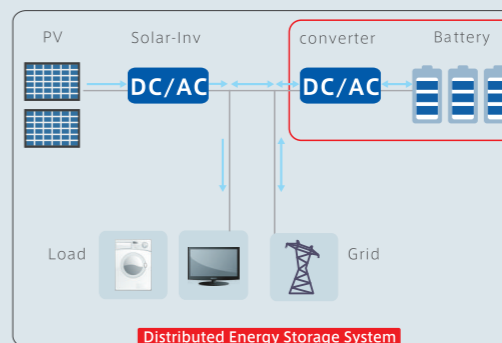
- Communication base station;
- Residential application;
- Small commercial or industrial area;
- Areas with electricity price difference between peak period and off-peak period, abundant sunshine, unreliable grid or government incentives, etc.

Technical Data		
Product Name	B08P03C04A-E	B08P09C0XC-E
Continuous Power Rating	3KW	9KW(3KW/Phase)
<b>AC SPECIFICATIONS</b>		
Nominal AC Voltage(output/input)	230Vac/230Vac	400Vac/400Vac
Nominal Frequency	50Hz	50Hz
Total Harmonic Distortion	Output Current	<4%
	Input Voltage	2%
AC Transfer Switch Speed	<20ms	<20ms
Max. Inverter Efficiency	93%	93%
Reference Standards	VDE-AR-N4105	VDE-AR-N4105
Output Waveform	True Sine Wave	True Sine Wave
<b>DC SPECIFICATIONS</b>		
Recommended Solar Array Input	4000W	4000W
Open Circuit Voltage of PV	145VDC (absolute Lowest temperature)	145VDC (absolute Lowest temperature)
MPPT Voltage	70~120VDC	70~120VDC
Max. Output Current of Solar Charger	70A	70A
Max. Input DC Current	57A	57A
Max. Solar Charger Efficiency	97.3%	97.3%
Battery Voltage	Nominal	52V
	Operating Range	48~57VDC
<b>SYSTEM SPECIFICATIONS</b>		
Battery Type	LiFePO4	LiFePO4
Usable Capacity	≥8KWh	≥8KWh
System Efficiency	89%	89%
Product Warranty	5 years	5 years
Exterior Communications	Rs485/Ethernet	Rs485/Ethernet
Operating Temperature	0° C~45°C	0° C~45°C
Operating Humidity Range	10%~90%	10%~90%
Altitude	<2000m	<2000m
Enclosure Rating	Indoor	Indoor
Dimension(L*W*H mm)	653*605*1415	PCS(750*608*1270);Battery cabinet(606*581*1273)

Note: X=4(charger:4000W)/X=8(charger:8000W)

# BYD DESS-AC

B08P03A-E B08P09C-E



It applies to houses which have installed PV+ inverter

## BYD DESS

BYD Distributed Energy Storage System (DESS) is a new energy power solution which can be used grid interactive and stand alone. An integrated ultra-fast AC transfer switch guarantees that even sensitive back-up loads, like computers, never know when a utility outage occurs. The bi-directional inverter can provide high quality true sine waveform power for the load. And the working mode of the DESS can be selected and adjusted to meet different requirements .

### Characteristics:

- On grid and off grid application available;
- Excellent power management function, providing unattended power supply solution;
- Easy installation and maintenance;
- Functioning as UPS to guarantee uninterrupted power supply to the users;
- High security, stability and reliability.

### Applications:

- Communication base station;
- Residential application;
- Small commercial or industrial area;
- Areas with electricity price difference between peak period and off-peak period, abundant sunshine, unreliable grid or government incentives, etc.

Technical Data		
Product Name	B08P03A-E	B08P09C-E
Continuous Power Rating	3KW	9KW(3KW/Phase)
<b>AC SPECIFICATIONS</b>		
Nominal AC Voltage(output/input)	230Vac/230Vac	400Vac/400Vac
Nominal Frequency	50Hz	50Hz
Total Harmonic Distortion	Output Current	<4%
	Input Voltage	2%
AC Transfer Switch Speed	<20ms	<20ms
Max. Inverter Efficiency	93%	93%
Reference Standards	VDE-AR-N4105	VDE-AR-N4105
Output Waveform	True Sine Wave	True Sine Wave
<b>DC SPECIFICATIONS</b>		
Battery Voltage	Nominal	52V
	Operating Range	48~57VDC
<b>SYSTEM SPECIFICATIONS</b>		
Battery Type	LiFePO4	LiFePO4
Usable Capacity	≥8KWh	≥8KWh
System Efficiency	89%	89%
Product Warranty	5 years	5 years
Exterior Communications	Rs485/Ethernet	Rs485/Ethernet
Operating Temperature	0° C~45°C	0° C~45°C
Operating Humidity Range	10%~90%	10%~90%
Altitude	<2000m	<2000m
Enclosure Rating	Indoor	Indoor
Dimension(L*W*H mm)	653*605*1415	PCS(750*608*1270);Battery cabinet(606*581*1273)

Naming Rules:  
 BXX PXX CXX X E  
 ↓ ↓ ↓ ↓ ↓  
 B:Battery P:Power C:Charger X=A:1 phase X=C:3 phase E:Europe  
 XX kWh XX kw XX KW

