

# Distributed Energy Storage System (DESS)

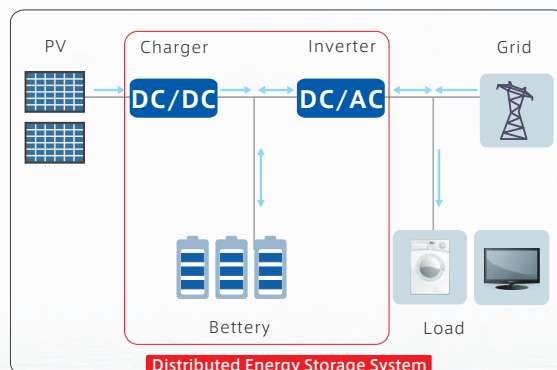


DESS- B08P03C04A-E



## About BYD DESS

BYD 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.



## Production Information



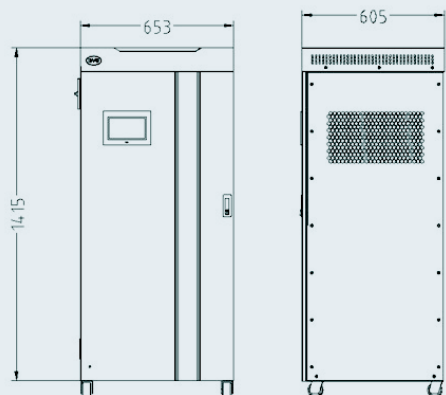
## Applications

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.

## 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

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

## Technical Data

<b>Product Name</b>	<b>DESS-B08P03C04A-E</b>	
Continuous Power Rating	3KW	
<b>AC SPECIFICATIONS</b>		
Nominal AC Voltage(output/input)	230Vac	
Nominal Frequency	50Hz	
Total Harmonic Distortion	Grid-tied	<4%
	Off-grid	<2%
AC Transfer Switch Speed	<20ms	
Max. Inverter Efficiency	93%	
Reference Standards	VDE-AR-N 4105	
Output Waveform	True Sine Wave	
<b>DC SPECIFICATIONS</b>		
Recommended Solar Array Input	4000W	
Open Circuit Voltage of PV	145VDC (absolute Lowest temperature)	
MPPT Voltage	70~120VDC	
Max. Output Current of Solar Charger	80A	
Max. Solar Charger Efficiency	97.3%	
Battery Voltage	Nominal	52V
	Operating Range	48~57VDC
<b>SYSTEM SPECIFICATIONS</b>		
Battery Type	LiFePO4	
Usable Capacity	≥8KWh	
Exterior Communications	Ethernet	
Operating Temperature	0° C~45°C	
Operating Humidity Range	10%~90%	
Altitude	<2000m	
Enclosure Rating	Indoor	
product warranty	5 years(one cycle per day, at least 80% capacity remain)	

## Package Information

Type	Packing Container size(mm)	Cabinet Weight (Net Weight)	Total Weigh	Cabinet size	20' container/pcs	40' container/pcs
<b>3kw/8KWh DC Side</b>						
System Cabinet	1740*770*740	275KG	350KG	1415*653*605	27	54
<b>3kw/8KWh AC Side</b>						
System Cabinet	1740*770*740	230KG	305KG	1415*653*605	27	54

### BYD Company Limited

No.3009, BYD Road, Pingshan, Shenzhen, 518118, P. R. China  
 Tel: +86-755-89888888  
 Fax: +86-755-84202222  
 E-mail: bydenergy@byd.com  
 www.bydenergy.com

### BYD Europe B.V

Vareseweg 53 – 59,3047 AT Rotterdam  
 Tel: +31-10-2070888  
 Fax: +31-10-2070880  
 Email:eugroupebyd.com

### BYD North America

1800 S. Figueroa Street, Los Angeles, CA 90015, USA  
 Tel: +1-213-748-3980  
 Email:bydenergy@byd.com

Discover more about BYD on

[facebook.com/bydcompany](https://www.facebook.com/bydcompany)

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