

# DIJIYA



## DIJIYA DESS-200/500/1000 Energy Storage System Features and Functions

- ① LiFePO4 cell with high energy density, Safe! No combustibility ! Risk - free !
- ② Cell with Extra low internal impedance characteristic, system self-dissipation lower than 0.01%
- ③ ESS series can apply to Off-Grid and On-Grid both
- ④ Automotive grade design standard, High quality guarantee
- ⑤ Industrial PC and Touch-Screen design to monitor the operation of the ESS system
- ⑥ Wi-Fi and Ethernet communication can help monitor and inform any status in the system, including Capacity, Charging, Discharging, SOC, SOH, Temperature and any Warning from the system
- ⑦ Modularized battery pack design for easy maintenance
- ⑧ Each Pack with cell balance charging design for periodic charging to prolong the life expectancy of cells in the system
- ⑨ ESS system can run Charging and Discharging at the same time
- ⑩ Energy Source : Grid power(Standard) · Solar and Wind Turbine(Optional) · others(Optional)
- ⑪ Off-Grid Inverter output (Standard) · On-Grid Inverter(Optional)
- ⑫ High Efficiency Charger(>94% above) · Off-Grid Inverter (>95% above) · On-Grid (>97% above)
- ⑬ Standard Charging time 10 hour, and Optional for fast charging to 2 hours
- ⑭ Programmable Charging time division in 24 hours

# Energy Storage System

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DIJIYA Energy Saving Technology Co., Ltd.

## Dijiya Energy Storage System for Off-Grid Specifications

Model No.	ESS-200	ESS-500	ESS-1000
Container	Indoor cabinet	20' container	40'container
Energy Capacity	200 kWh+3%	500 kWh+3%	1000 kWh+3%
Nominal Voltage	512 Vdc	512 Vdc	512 Vdc
Highest charging volt	580 Vdc	580 Vdc	580 Vdc
Lowest Discharging volt	480 Vdc	480 Vdc	480 Vdc
Cell	LiFePO4	LiFePO4	LiFePO4
Operating LCD	17" LCD	17" LCD	17" LCD
Operating Temp.	0~40°C	0~40°C	0~40°C
Heat dissipation	Forced - air fan	Forced - air fan	Forced - air fan
IP grade	IP55	IP55	IP55
Dimension (cm)	606×244×259	606×244×259	1219×244×259
Net Weight (kg)	2600	6500	12000
Gross Weight (kg)	3520	8800	15900
Input Specifications			
Input AC Voltage	380/220V 3φ4W	380/220V 3φ4W	380/220V 3φ4W
PFC	0.95	0.95	0.95
Charging Power	20 kW	50 kW	100 kW max
Charging Voltage	400~750 Vdc	400~750 Vdc	400~750 Vdc
Charging Current	40 Adc	100 Adc	200 Adc
Charging Eff	>94%	>94%	>94%
Charging mode	programmable	programmable	programmable

## Output Specifications

AC voltage	380/220V 3φ4W	380/220V 3φ4W	380/220V 3φ4W
Output Power	50 kVA	50 kVA	100 kVA
Frequency	50/60 hz ± 3%	50/60 hz ± 3%	50/60 hz ± 3%
Crest Factor CF	3:1	3:1	3:1
Output Eff.	92%	92%	92%
Distortion (THD)	< 5%	< 5%	< 5%
Protection	OVP, UVP, OPP, Short, OTP		
Overdrive	150% 10s	150% 10s	150% 10s
Operating Temp.	-15~+55°C	-15~+55°C	-15~+55°C
Humidity	0~90% , no condense	0~90% , no condense	0~90% , no condense
Insulation	100Mohm 2500Vac, 60s	100Mohm 2500Vac, 60s	100Mohm 2500Vac, 60s
Cooling	Forced - Air fan	Forced - Air fan	Forced - Air fan
Altitude (m)	< 2000	< 2000	< 2000
Communication specifications			
Interface	CAN2.0A, CAN2.0B, RS485, Wi-Fi	CAN2.0A, CAN2.0B, RS485, Wi-Fi	CAN2.0A, CAN2.0B, RS485, Wi-Fi
GPS (Optional)	Available	Available	Available
Safety	EN60950-1:2006+A11:2009, EN61000-6-4:2007+A1:2001, EN61000-6-2:2005, EN61000-3-12:2005, EN61000-3-11:2000		

Specifications are subject to change without notice