




JDENERGY

eBlock 100C

PHOTOVOLTAICS & ENERGY STORAGE INTEGRATION FOR GREENER FUTURE



eBlock-100C-IEC
Energy Storage System

 Intelligent operation and maintenance  Extreme Safety  Efficient and flexible  Easy Installation

■ **Intelligent operation and maintenance**

- Photovoltaic maximum 100kWp input, more choice for customer.
- Low voltage AC 400V three-phase four-wire 50Hz system output, plug and play.
- Modular energy block design, modular spare parts, more convenient maintenance.
- Data, high-speed access to the cloud, remote active fire extinguishing, to achieve true unattended.
- Profits are clearer, data is more transparent, operation and maintenance is easier.

■ **Efficient and Flexible**

- Full liquid cooling (Pack+PCS), long system life, lower auxiliary power consumption.
- High energy density, small footprint, no need to design a junction cabinet, reduce equipment costs.
- Pack/PCS modular design, reduce failure loss, high availability system rate.
- Single rack management, no inter rack circulation, improve the system energy charge/discharge capacity.
- PCS and battery integrated design, side by side field layout more flexible.

■ **Extreme Safety**

- Multi-layer fire protection, rapid suppression of thermal runaway.
- Bottom burst design to prevent the risk of explosion.
- Battery health AI management, early warning of failure battery.
- Noise reduction by 50%, suitable for large commercial buildings, parks and other areas.
- The whole cabinet IP55 protection, C5 anti-corrosion adaptability, support a variety of differentiated extreme environment applications.

■ **Easy Installation**

- Modular products plug and play.
- Automatic SOC balancing between Packs.
- Equipment foundation no need excavation design, save the site civil construction cost.
- With the functions of parallel off-grid, backup power, three-phase imbalance management, etc. Suitable for various application scenarios.

SYSTEM DATA

Cell Type	LFP 3.2V/314AH
Configuration	128S1P
Nameplate Capacity	120kWh
Maximum System Efficiency	≥88%
Depth of Discharge	100% DOD
Voltage Frequency	50Hz
Communication Interface	LAN
Number of Cycles	≥7000 Cycles
System Protection Level	IP55 (battery cabinet)
Operating Temperature	-35°C~55°C (45°C-55°C derating)
Operating Humidity	0%RH ~ 95%RH (No condensation)
Noise	≤75dB
Altitude	≤2000m
Thermal Management Methods	Liquid cooling (battery+PCS)
Certification	IEC 62619, IEC 62477, IEC 61000 IEC 60730, VDE 4105, CEI 0-21 EN 50549-1, UN38.3

PV DATA

Maximum Photovoltaic Input Power	100kWp
Rated DC Input Voltage	720V
MPPT Voltage Range	150-900V

MECHANICAL PARAMETER

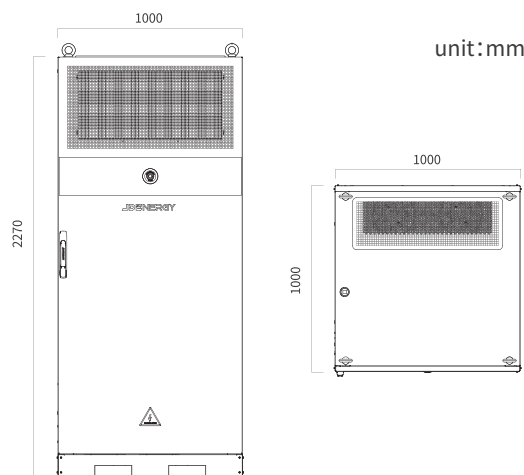
Dimensions (L*W*H)	1000mm*1000mm*2270mm
Total Weight	1600Kg

GRID DATA

Rated Voltage	400V (-15%~10%) 3L/N/PE
Rated Power	50kw
Rated Current	72.5A
Rated Frequency	50Hz
Maximum Input Power	100kVA
Maximum Input Current	145A

BACKUP DATA

Rate Output Power	50kVA
Maximum Output Power	55kVA/long-term;60kVA/2min
Rated Output Voltage	400V (-15%~10%) 3L/N/PE
Rated Frequency	50Hz



Tolerance: Length ±2mm, width ±2mm

*JDenergy reserves the right of final interpretation for all data contained in this specification.(20251023 V2.0)

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