

Product Specification



High Capacity Energy Storage ENFU Batteries Series Specification

ENFU BATTERIES

LITHIUM POWER BANK

ESS - LiFe Po4



A Project by ENFU Technology



CAFU THRIVE SUSTAINABLY

Product Specification

CONTENTS

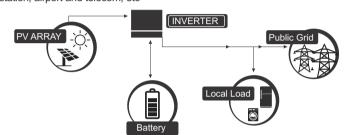
- 1. Application
- 2. Feature
- 3. Advantages
- 4. . High Capacity Stack Battery System 48v
- 5. High Capacity Stack Battery System 51.2v
- Folding Inspection
- 7. Preparation Before Installation
- 8. Installation Dimension Drawing



Product Specification

1. Application

Be specially designed for multiple energy storage application scenarios including household, data center and commercial building, bank, hospital, school, railway station, airport and telecom, etc



2.Feature



















3. Advantages

- 1 Long Design
- Modular Design
- 6 Scalable & Flexible
- Life Multiple Protection
- Dekra Certification
- 6 Easy Maintenance



Product Specification



4. High Capacity Stack Battery System 48V

Product Name	High Voltage Stack Battery System				
Product Model	EU 48100-2P	EU 48100-3P	EU 48100-4P	EU 48100-5P	
Nominal Capacity(kWh)	9.6	14.4	19.2	24	
Usable Capacity(kWh)	9.12	13.68	18.24	22.8	
Nominal Voltage(V)	48	48	48	48	
Working Voltage(V)	42~54.7	42~54.7	42~54.7	42~54.7	
Charging Voltage(V)	54.7	54.7	54.7	54.7	
Max.Charge Current(A)	100	150	200	250	
Max. Discharge Current(A)	200	300	400	500	
Weight(kg)	46*2	46*3	46*4	46*5	
Dimension(mm)	625*390*210(*2)	625*390*210(*3)	625*390*210(*4)	625*390*210(*5)	
Design Life	10 Years (25°C)	10 Years (25°C)	10 Years (25 °C)	10 Years (25 °C)	
Scalability	Max. 16 in parallel	Max. 16 in parallel	Max. 16 in parallel	Max. 16 in parallel	



Product Specification



5. High Capacity Stack Battery System 51.2V

Product Name	High Voltage Stack Battery System				
Product Model	EU 5120-2P	EU 5120-3P	EU 5120-4P	EU 5120-5P	
Nominal Capacity(kWh)	10.24	15.36	20.48	25.6	
Usable Capacity(kWh)	9.728	14.592	19.456	24.32	
Nominal Voltage(V)	51.2	51.2	51.2	51.2	
Working Voltage(V)	44.8~58.4	44.8~58.4	44.8~58.4	44.8~58.4	
Charging Voltage(V)	58.4	58.4	58.4	58.4	
Max.Charge Current(A)	100	150	200	250	
Max. Discharge Current(A)	200	300	400	500	
Weight(kg)	46*2	46*3	46*4	46*5	
Dimension(mm)	625*390*210(*2)	625*390*210(*3)	625*390*210(*4)	625*390*210(*5)	
Design Life	10 Years (25°C)	10 Years (25°C)	10 Years (25 °C)	10 Years (25 ℃)	
Scalability	Max. 16 in parallel	Max. 16 in parallel	Max. 16 in parallel	Max. 16 in parallel	



Product Specification

51.2V100A(16S)

Chemistry: Lithium Iron Phosphate (LiFePO4)

Pack Configuration: 16S1P Nominal Voltage: 51.2V

Nominal Capacity: 100Ah

Nominal Energy: 5.12kWh @0.2C

Charging Voltage: 58.4 ± 0.2V

Max Charge Rate: 1C

Floating Voltage: 54V

Discharging Voltage: 40V

Max Discharge Rate: 1C

BMS: Built-in Advanced Battery Management System

Cell Balancing: Active Cell Balancing for Optimal Performance and Longevity.

Operating Temperature: -20°C to 60°C (-4°F to 140°F)

Humidity: 5% to 95%

Installation Method: Wall Mounted, Rack Mounted, or Integration into Existing Systems

Self-Discharge Rate: 1-3% Per Month

IP Rating: lp20

Weight: Varies based on configuration

Dimensions: Customizable based on application requirements

Warranty: 3 years. Extended warranty option available.

Customization Options:

1.Battery enclosure size and shape.

2.Communication protocols (CAN/RS485/RS232/Bluetooth/WIFI etc.)

Connector types and configurations.

4. Additional safety features and certifications.

- 1.Electric Vehicles (EVs)
- Energy Storage Systems (ESS)
- 3. Solar Photovoltaic (PV) Systems
- 4.Telecom Backup Power Industrial Equipment
- Marine and RV Power System



Product Specification

51.2V50A(16S)

Model: Enful EP5150

Chemistry: Lithium Iron Phosphate (LiFePO4)

Pack Configuration: 16S1P Nominal Voltage: 51.2V

Nominal Capacity: 50Ah

Nominal Energy: 2.56kWh @0.2C

ChargingVoltage: 58.4 ± 0.2V

Max Charge Rate: 1C

Floating Voltage: 54V

Discharging Voltage: 40V

Max Discharge Rate: 1C

BMS: Built-in Advanced Battery Management System

Cell Balancing: Active Cell Balancing for Optimal Performance and Longevity.

Operating Temperature: -20°C to 60°C (-4°F to 140°F)

Installation Method: Wall Mounted, Rack Mounted, or Integration into Existing Systems

Self-Discharge Rate: 1-3% Per Month

IP Rating: lp20

Weight: Varies based on configuration

Humidity: 5% to 95%

Dimensions: Customizable based on application requirements

Warranty: 3 years. Extended warranty option available.

Customization Options:

 Battery enclosure size and shape. Communication protocols (CAN/RS485/RS232/Bluetooth/WIFI etc.)

Connector types and configurations. 4. Additional safety features and certifications.

Applications:

1.Electric Vehicles (EVs)

2. Energy Storage Systems (ESS) Solar Photovoltaic (PV) Systems

4.Telecom Backup Power

5.Industrial Equipment

6.Marine and RV Power System





Product Specification

48V100A(15S)

Model: Enfu | FP48100

Chemistry: Lithium Iron Phosphate (LiFePO4)

Pack Configuration: 15S1P Nominal Voltage: 48V

Nominal Capacity: 100Ah

Nominal Energy: 4.8kWh @0.2C

Charging Voltage: 54.7 ± 0.2V

Max Charge Rate: 1C

Floating Voltage: 51V

Discharging Voltage: 37.5V

Max Discharge Rate: 1C

BMS: Built-in Advanced Battery Management System

Cell Balancing: Active Cell Balancing for Optimal Performance and Longevity.

Operating Temperature: -20°C to 60°C (-4°F to 140°F)

Humidity: 5% to 95%

Installation Method: Wall Mounted, Rack Mounted, or Integration into Existing Systems

Self-Discharge Rate: 1-3% Per Month

IP Rating: lp20

Weight: Varies based on configuration

Dimensions: Customizable based on application requirements

Warranty: 3 years, Extended warranty option available.

Customization Options:

- 1.Battery enclosure size and shape.
- Communication protocols (CAN/RS485/RS232/Bluetooth/WIFI etc.) Connector types and configurations.
 - 4. Additional safety features and certifications

- 1.Electric Vehicles (EVs)
- 2. Energy Storage Systems (ESS)
- 3. Solar Photovoltaic (PV) Systems
 - 4. Telecom Backup Power
 - 5.Industrial Equipment 6.Marine and RV Power System



Product Specification

401/50 8 /4 501

40V3UA(133)	
Model: Enfu LFP4850	
Chemistry: Lithium Iron Phosphate (LiFePO4)	

Pack Configuration: 15S1P

Nominal Voltage: 48V

Nominal Capacity: 50Ah

Nominal Energy: 2.4kWh @0.2C

Charging Voltage: 54.7 ± 0.2V

Max Charge Rate: 1C

Floating Voltage: 51V

Discharging Voltage: 37.5V

Max Discharge Rate: 1C

BMS: Built-in Advanced Battery Management System

Cell Balancing: Active Cell Balancing for Optimal Performance and Longevity.

Operating Temperature: -20°C to 60°C (-4°F to 140°F)

Humidity: 5% to 95%

Installation Method: Wall Mounted, Rack Mounted, or Integration into Existing Systems

Self-Discharge Rate: 1-3% Per Month

IP Rating: lp20

Weight: Varies based on configuration

Dimensions: Customizable based on application requirements

Warranty: 3 years, Extended warranty option available.

Customization Options:

- 1.Battery enclosure size and shape. 2.Communication protocols (CAN/RS485/RS232/Bluetooth/WIFI etc.)
- Connector types and configurations.
 - 4. Additional safety features and certifications

- 1.Electric Vehicles (EVs)
- 2. Energy Storage Systems (ESS)
- 3. Solar Photovoltaic (PV) Systems
- 4. Telecom Backup Power
- 5.Industrial Equipment 6.Marine and RV Power System





Product Specification

24V200A

Model: Enfu LFP24200)
----------------------	---

Chemistry: Lithium Iron Phosphate (LiFePO4)

Pack Configuration: 8S1P

Nominal Voltage: 25.6V

Nominal Capacity: 200Ah

Nominal Energy: 5.12kWh @0.2C

Charrier Valtare: 20.2 + 0.21/

Charging Voltage: 29.2 ± 0.2V

Max Charge Rate: 1C

Floating Voltage: 27V

Discharging Voltage: 20V

Max Discharge Rate: 1C

BMS: Built-in Advanced Battery Management System

Cell Balancing: Active Cell Balancing for Optimal Performance and Longevity.

Operating Temperature: -20°C to 60°C (-4°F to 140°F)

Humidity: 5% to 95%

Installation Method: Wall Mounted, Rack Mounted, or Integration into Existing Systems

Self-Discharge Rate: 1-3% Per Month

IP Rating: lp20

Weight: Varies based on configuration

Dimensions: Customizable based on application requirements

Warranty: 3 years, Extended warranty option available.

Customization Options:

- 1.Battery enclosure size and shape.
- 2.Communication protocols (CAN/RS485/RS232/Bluetooth/WIFI etc.) 3.Connector types and configurations.
- 4. Additional safety features and certifications.

- 1.Electric Vehicles (EVs)
- 2.Energy Storage Systems (ESS)
 - 3.Solar Photovoltaic (PV) Systems
- 4.Telecom Backup Power
 5.Industrial Equipment
- 6.Marine and RV Power System





Product Specification

24V100A

Model: Enfu LFP24100

Chemistry: Lithium Iron Phosphate (LiFePO4)

Pack Configuration: 8S1P

Nominal Voltage: 25.6V

Nominal Capacity: 100Ah

Nominal Energy: 2.56kWh @0.2C

01 : 1/ 1/ 00 0 : 0 01/

Charging Voltage: 29.2 ± 0.2V

Max Charge Rate: 1C

Floating Voltage: 27V

Discharging Voltage: 20V

Discharging voltage. 201

Max Discharge Rate: 1C

BMS: Built-in Advanced Battery Management System

Cell Balancing: Active Cell Balancing for Optimal Performance and Longevity.

Operating Temperature: -20°C to 60°C (-4°F to 140°F)

Humidity: 5% to 95%

Installation Method: Wall Mounted, Rack Mounted, or Integration into Existing Systems

Self-Discharge Rate: 1-3% Per Month

IP Rating: lp20

Weight: Varies based on configuration

Dimensions: Customizable based on application requirements

Warranty: 3 years. Extended warranty option available.

Customization Options:

- 1.Battery enclosure size and shape.
- 2.Communication protocols (CAN/RS485/RS232/Bluetooth/WIFI etc.)
- 3. Connector types and configurations.
- 4. Additional safety features and certifications.

- 1.Electric Vehicles (EVs)
- 2.Energy Storage Systems (ESS)
- 3. Solar Photovoltaic (PV) Systems
- Telecom Backup Power
 Industrial Equipment
- 6.Marine and RV Power System





Product Specification

24V50A

Model: Enful EP2450

Chemistry: Lithium Iron Phosphate (LiFePO4)

Pack Configuration: 8S1P

Nominal Voltage: 25.6V

Nominal Capacity: 50Ah

Nominal Energy: 1.28kWh @0.2C

Charging Voltage: 29.2 ± 0.2V

Max Charge Rate: 1C

Floating Voltage: 27V

Discharging Voltage: 20V

Max Discharge Rate: 1C

BMS: Built-in Advanced Battery Management System

Cell Balancing: Active Cell Balancing for Optimal Performance and Longevity.

Operating Temperature: -20°C to 60°C (-4°F to 140°F)

Humidity: 5% to 95%

Installation Method: Wall Mounted, Rack Mounted, or Integration into Existing Systems

Self-Discharge Rate: 1-3% Per Month

IP Rating: lp20

Weight: Varies based on configuration

Dimensions: Customizable based on application requirements

Warranty: 3 years, Extended warranty option available.

Customization Options:

1.Battery enclosure size and shape.

2.Communication protocols (CAN/RS485/RS232/Bluetooth/WIFI etc.) 3. Connector types and configurations.

Additional safety features and certifications.

- 1. Electric Vehicles (EVs)
- 2. Energy Storage Systems (ESS)
- 3. Solar Photovoltaic (PV) Systems
- 4.Telecom Backup Power 5.Industrial Equipment
- 6.Marine and RV Power System



COFFU TECHNOLOGY THRIVE SUSTAINABLY

Product Specification

6.Folding Inspection

Please check the product before installation. Make sure nothing in the package is damaged or missing.

You should receive the following items in the packages:

Household energy storage battery products *1

Mounting plate *2

Product specification *1

Battery parallel communication cable *1

Battery parallel cable *2 (Red*1 and black*1) (For more than one battery)

7. Preparation Before Installation

Before choosing an installation location, consider the following:

- 7.1.Do not install this product on surfaces of flammable building materials
- 7.2. Mounted on the surface of a solid material
- 7.3.Please install this energy storage battery at eye level for a more intuitive view of the LCD.
- 7.4. For heat dissipation, ensure that the distance is 20cm from both sides and 50cm from the bottom of the Unit
- 7.5. The ambient temperature of the installation location should be between 0 and 45 degrees Celsius to ensure optimal operation.
- 7.6. The recommended installation position should be vertically attached to the wall and kept at a safe distance from other objects and surfaces to ensure sufficient space for heat dissipation and wire collection



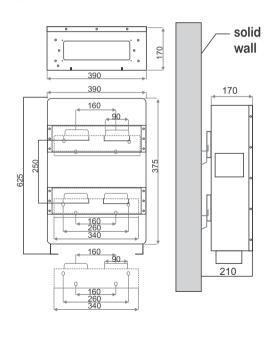
CAFU TECHNOLOGY THRIVE SUSTAINABLY

Product Specification

8.Installation Dimension Drawing

NOTE: The following picture is only a schematic diagram of the equipment If the actual chassis does not conform to the schematic due to a structural upgrade, it is subject to prior notice.

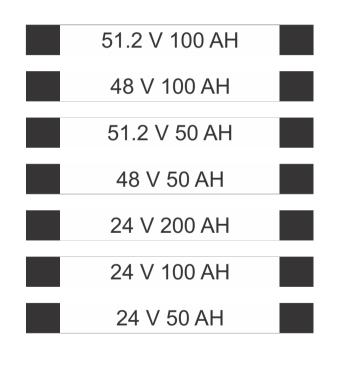
Only suitable for installation on concrete or other non-combustible solid surface.





THRIVE SUSTAINABLY

Product Specification





The Most Advance **ENFU LITHIUM ESS** Technology For Home and Industrial Storage System.



A Project by ENFU Technology

ENFU TECHNOLOGY PVT, LTD