

	Product Specification	Document No. :	YF26081201
		Version:	A0
		Date:	2026-08-15

Product Name: LiFeP04

Product Model: Matrix-32.0

Product Specification: 51.2V/628Ah

CUSTOMER CONFIRMATION		
Reviewed/Date	Approved/Date	(Company Seal)

Prepared/Date	Reviewed/Date	Approved/Date

CSA Solar Co., Ltd.

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1. Scope of Application

This product specification applies to the battery packs manufactured by Zhongke Hongtai (Anhui) New Energy Technology Co., Ltd. as mentioned in this document.

2. Functions and Features

- The battery cell is made of lithium iron phosphate (LiFeP04) material, offering excellent safety performance and a long cycle life.
- The custom metal housing with sprayed coating provides fire-retardant and insulating properties. 16 battery cells are connected in series to form one battery module, and the module is then connected to the Battery Management System (BMS) to form the complete battery pack.
- The BMS provides over-discharge, over-charge, over-current and high/low temperature alarm and protection functions.
- The BMS is equipped with an upper computer system that can monitor and record the voltage, current, temperature and status of the battery cells and the battery pack in real time.
- Flexible configuration: up to 15 module groups can be connected in parallel to expand the storage capacity and power output.

3. Product Specifications

No.	Item	Basic Parameters
1	Rated Voltage (V)	51.2
2	Rated Capacity (Ah)	628Ah @ 0.5C discharge current; 25±2° C



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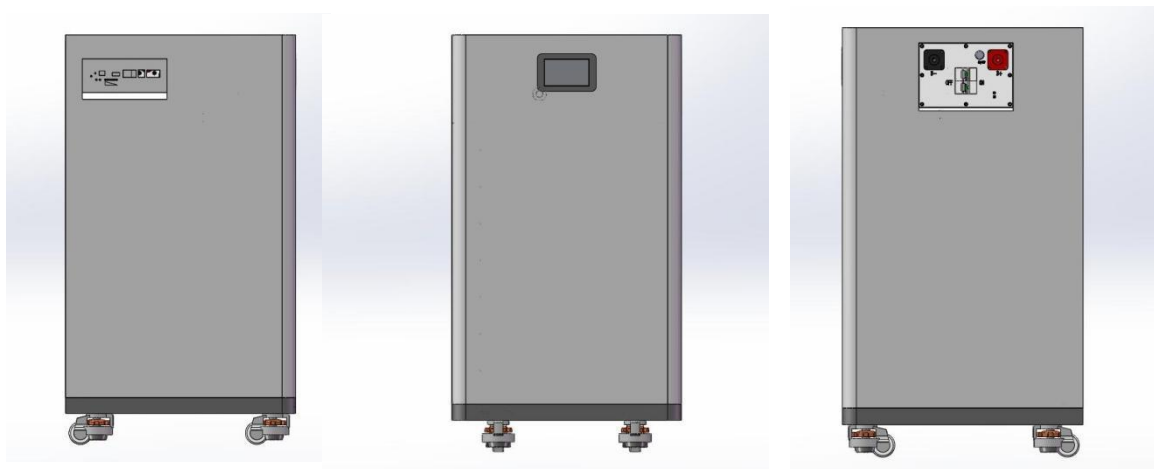
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3	Rated Energy/kWh	32
4	Dimensions (L×W×H)	500mm×510mm×h910mm
5	Weight (kg)	200
6	Discharge Cut-off Voltage (V)	42
7	Charge Cut-off Voltage (V)	58.4
8	Standard Charge Current (A)	150
9	Standard Discharge Current (A)	150
10	Continuous Charge/Discharge Current (A)	150

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11	Max. Charge Current (A)	180
12	Max. Discharge Current (A)	180
13	Operating Temperature	0° C ~ 50° C (charging)
		-20° C ~ 60° C (discharging)
		-20° C ~ 55° C (storage)
14	SOC Range	5% ~ 100%
15	Recommended SOC Range	10% ~ 95%
16	Communication Interface	CAN/RS485/RS232
17	Operating Humidity	Relative humidity: 10%RH~85%RH
18	Ingress Protection Rating	IP20

4. Product Pictures



(Product style can be customized according to customer requirements)

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5. Precautions

- (1) Do not disassemble the battery pack without authorization;
- (2) Do not incinerate the battery pack; otherwise the battery may explode, which is extremely dangerous and must be strictly prohibited;
- (3) Do not immerse the battery pack in liquids such as fresh water, seawater, and non-alcoholic beverages, juice, coffee or other drinks;
- (4) Different inverter models may use different communication protocols; even products of the same brand may have design differences;
- (5) Since the battery operates on the principle of chemical reactions, its performance will degrade over time, even if it is stored unused for a long period. If the operating conditions such as charging, discharging and ambient temperature are outside the specified range, the battery service life will be shortened, or electrolyte leakage may occur and damage the equipment. If the battery cannot be charged for a long period even with the correct charging method, the battery needs to be replaced.

6. Product Warranty

- (1) The warranty period is calculated from the date the product passes final acceptance; if there is no acceptance, it is calculated from the date the product is received and signed for on arrival.
- (2) During the warranty period, free repair and free replacement of parts are provided for manufacturing quality defects of the product itself.

7. Warranty Exclusions

- (1) Human operating errors, unauthorized overclocking/overload operation, or failure to use the product in accordance with the operation manual;

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- (2) Unauthorized disassembly, modification, tampering with equipment parameters, or cracking of the control system;
- (3) Abnormal power supply (voltage surge, phase loss, excessively high neutral-to-ground voltage), harsh environment (high temperature, humidity, dust, corrosion);
- (4) Natural disasters, lightning strikes, water ingress, impact from external forces;
- (5) Normal aging and natural wear of consumable parts;
- (6) Failure to perform maintenance as required at regular intervals.

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8. After-sales Response

- (7) Near-end remote support (online commissioning): customers first report faults via WeChat/phone/near-end debugging software;
- (8) On-site service: when the issue cannot be resolved remotely, an engineer will be arranged to visit the site and handle it.
- (9) Agreed response time (domestic): telephone response within 12 hours; on-site visit to handle the issue within 3 days.