

FarAmp51.2V280Ah

Residential Low voltage battery system



Product Features

- High energy density, small size, light weight, no pollution;
- 1C rate charge/discharge;
- Match varied inverters;
- IP20 grade,suitable for indoor;
- 15 years design life, Stable performance, maintenance-free;



2 Layers Safety Design

Much safer
More reliable.



Smart management system

Available with Wifi,
Bluetooth, LCD



1C Charge/Discharge

Efficient charging and
discharging.



Single Management

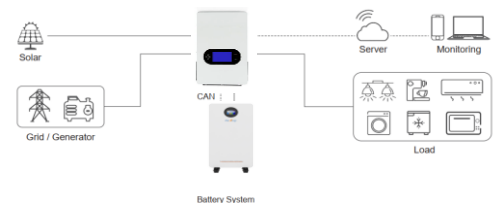
Ultimate security and
ultra-simple O&M.



Multi-Function

FarAmp lithium series batteries provide superior performance, capacities and reliability. Using state of high power cell technology, the lithium series is designed for environmentally sensitive areas that require super long cycle life capabilities.

FarAmp lithium batteries are widely used in industrial, residential, commercial and private applications. The maintenance free construction and advanced design features makes the lithium series the definitive choice for a wide variety of markets. Like solar and renewable energy storage, electric vehicle, golf cart and industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solution; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems



Factory/Office Park/Hotel/Restaurant

Arbitraging from the TOU tariff, peak-load shifting



Mobile charger

Used as a backup power for household use



Off-grid

Multi-energy storage system with solar, diesel generator, wind turbine, etc.

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Product Parameters

Model	FarAmp-51.2V280Ah
Battery Parameters	
Battery cell model	LiFePO ₄ - 280Ah
Battery capacity	14.33kWh
Dimensions(LxWxH)	824*413*235mm
Weight	114
Terminal Type	T16/Plug
Terminal Torque	8.5N*M
Case Material	Steel
BMS build-in	Yes, software
Efficiency – round trip	> 99.5
Self Discharge per Month	< 3%
Max parallel connectors	15
Series connections	1
Cycle life (1C, 25°C@100% DOD)	> 6000
Discharge Temperature	-23~65°C
Charge Temperature	-3~65°C
Storage Temperature	-20~45°C
Bluetooth(App)	Optional
LCD Screen	Optional
Heating function	Optional
Voltage Window	44.8~57.6V
Recommend Charge Voltage	57V
Max Charge Voltage	59V
Recommend Charge current	20A
Max continuous charge current	100A
Recommend Discharge voltage	46V
Max Discharging Voltage	44.8V
Max Continuous Discharge current	100A
Peak Discharge Current	120A
Communication	RS485,Can

* The system will be derated when the ambient temperature exceeds 45°C.

** The system will be derated when the altitude is between 2000 and 3000m.

Certifications

System: CE(IEC61000,IEC62619,IEC62477),UN3480, UKCA ;

Cell: IEC 62619, UL1973, UL9540A;

Pack: UN38.3;

Note: Product specifications are subject to change without any prior notice as per regular modifications made by company.

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Performance

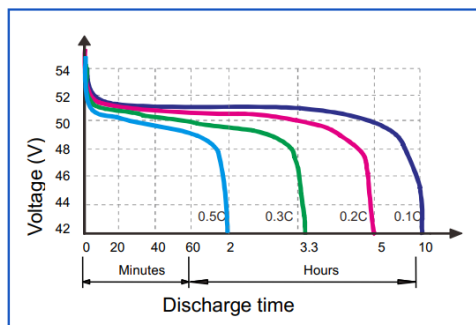
Constant Current Discharge Data (Amperes @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (42.0V)	280A	140A	93A	70A	20A	28A	14A

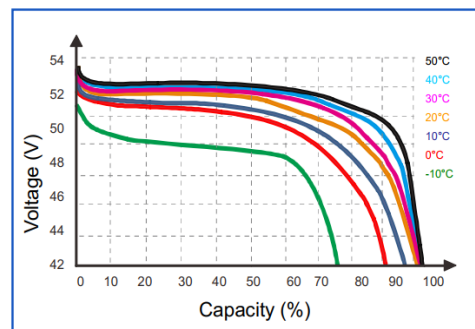
Constant Current Discharge Data (Amperes @ 25°C)

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (42.0V)	14336W	7168W	4778W	3584W	2867W	1433W	716W

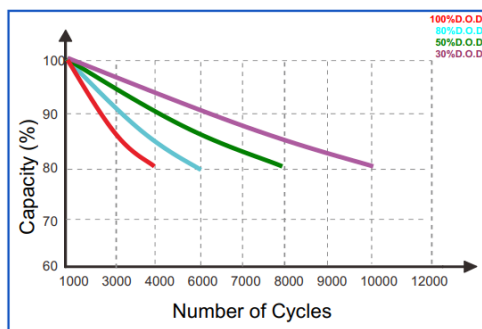
Discharge characteristics (25°C)



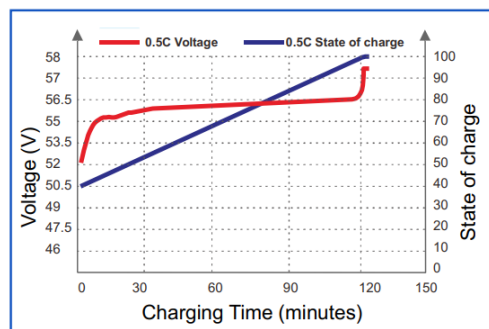
Different temperature Discharge curve (0.5C)



Discharge DOD discharge cycle life curve (0.2C, 25°C)



State of charge curve (0.5C, 25°C)



Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity.