

12V 300Ah (3.84kWh) Pro Series - LiFePO4 Cranking & Deep Cycle Lithium Battery (Dual Purpose) — User Manual

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EPOCH BATTERIES DP Series User Manual

Lithium iron phosphate battery with smart monitoring

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DP Series User Manual

Epoch Batteries

Lithium Iron Phosphate Battery with Smart
Monitoring

V06

Epoch Batteries

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Need help?

Do you have a question about the DP Series and is the answer not in the manual?

Related Manuals for EPOCH BATTERIES DP Series

-  Battery Pack EPOCH BATTERIES DP12120H User Manual
Battery Pack EPOCH BATTERIES DP12120H User Manual
(27 pages)
-  EPOCH BATTERIES DP12120H LiFePO4 Battery Installation & Operation Manual
EPOCH BATTERIES DP12120H LiFePO4 Battery Installation & Operation Manual
(article)
-  Battery Pack EPOCH BATTERIES B12460 User Manual
Battery Pack EPOCH BATTERIES B12460 User Manual
(9 pages)
-  Battery Pack EPOCH BATTERIES 12300A-V2 User Manual
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-  Battery Pack EPOCH BATTERIES 12460ES User Manual
Battery Pack EPOCH BATTERIES 12460ES User Manual
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-  Battery Pack EPOCH BATTERIES C12460A User Manual
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-  Battery Pack EPOCH BATTERIES C48100A User Manual
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(44 pages)
-  Battery Pack EPOCH BATTERIES SR48100H Operation And Maintenance Manual
Battery Pack EPOCH BATTERIES SR48100H Operation And Maintenance Manual
Server rack battery system (52 pages)
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-  Battery Pack EPOCH BATTERIES 1250A-ES User Manual
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Summary of Contents for EPOCH BATTERIES DP Series

- Page 1 DP Series User Manual Epoch Batteries Lithium Iron Phosphate Battery with Smart Monitoring Epoch Batteries Address: 164 Andrew Drive, Stockbridge GA 30281 Email: support@epochbatteries.com Web <https://www.epochbatteries.com...>

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a DC-DC charger _____ 24 5.4 Recommended charging voltage
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• Page 4: Safety

1. Safety 1.1 Statement Please read this manual carefully before installation, operation, and maintenance, and pay attention to various warning signs and statements on the equipment. After reading this manual, please keep it properly for future reference. 1.2 Specification This manual contents using the following symbols should be paid special attention to during operation. Symbol Statement Attention, caution, warning: Reminder of precautions during...

• Page 5: During Installation

During installation: • Personnel familiar with the electrical specifications of their country or region are required to install battery packs. For optimal safety, please follow the steps described in this manual. Battery operation: • ① Prohibit connecting batteries to different types of batteries□ •...

• Page 6: Waste Disposal

1.5 Waste disposal Please handle packaging and replace components in accordance with the laws and regulations of the country or region where the battery pack is located. Do not mix batteries with daily life. Dispose of garbage together. 2. Installation 2.1 Tools and Equipment insulating gloves Safety shoes...

• Page 7: Battery Supporting Materials

✕ ✕ Figure 1 Installation and Placement Diagram 2.3 Battery supporting materials Table 1: Material List Material name Chart QTY/pc SPEC Inter- 500mm long, communication M12 circular cable communication interface at both ends. Battery 12.8V120Ah or 12.8V200Ah or 12.8V300Ah Screw M8*16 stainless steel screw...

• Page 8: Introduction To Epoch Dp Series Batteries

- 3. Introduction to EPOCH DP series batteries 3.1 Main features a. LiFePO4 chemistry - providing excellent safety and lifespan b. High reliability c. Maintain consistent performance over a wide temperature range e. With higher heat dissipation effect, it can maintain high current charging and discharging of the battery for a longer time f.
- Page 9 Component Description Name Statement Disperse the heat inside the battery, be careful not to touch it with your hands Pole M8 Terminal Check the soc. running Display light to preliminarily Panel determine whether the battery operates normally When the battery is not Power used for a long time, it can Switch...
- Page 10 Pressure IP67 to prevent lithium relief batteries from exploding in valve special circumstances Convenient for fixing Bracket the battery on the ground Table 1: Component Description 1. Heat sink The heat sink is a battery cooling component, and rapid heat dissipation is beneficial for extending the battery life.

- Page 11 Table 2: Explanation of indicator lights Always on during charging or Indicator light discharging Flashing during Blink 1 Indicator light Always on when there is a malfunction Blinking mode Lighting time Off time Blink 1 0.25s 3.75s Blink 2 0.5s 0.5s SOC indicator lights: 4 green lights, representing different SOC according to different lighting methods.
- Page 12 Usage method: ① Press 1s to view battery SOC ② Press for more than 10 seconds to match the address of the battery and form a network ③ Press for 3 seconds to unlock the networking system. For detailed purposes, please refer to the networking function.
- Page 13 When the battery needs to communicate with external devices, a Link in needs to be connected; A: Schematic diagram of single battery usage B: When multiple batteries are used in series or parallel, the external device communication line needs to be connected to the battery Link in;...

• Page 14: Functional Characteristics

3.3 Functional characteristics Item DP12120H DP12200H DP12300H Nominal voltage 12.8V Nominal energy 1536Wh 2560Wh 3840Wh Nominal capacity 120Ah 200Ah 300Ah Internal resistance@1kHz AC $\leq 30\text{m}\Omega$ Allowed MAX. charge current@25°C 100A 200A 300A Allowed MIN. discharge current@25°C 150A 200A 300A Recommend charge current 100A 150A Recommend discharge current...

• Page 15: Heating Function

3.3.1 First use ① Observe that there are no signs of the battery being disassembled; ② When the battery leaves the factory, the power switch will be turned off and in the OFF state; ③ Before using the battery, it is necessary to turn the switch to the ON state, and the LED display light will be on.

• Page 16: Parallel Usage

batteries, and can communicate with external devices such as inverters, display screens, MPPTs, etc. Before connecting batteries in series or parallel, it is necessary to pay attention to: a). The batteries must be of the same model. Different models, different capacities, and different voltage platforms, series and parallel connection is not allowed;...

- Page 17 Communication cable Positive power cable Negative power cable Chart 3 Wire chart For example, two 12.8V 120Ah are used in parallel Do not output positive and negative poles on the same battery, which may damage the battery. System voltage: 12.8V System capacity: 120Ah + 120Ah = 240Ah...

• Page 18: Serial Usage

4.4 Simultaneous series and parallel Epoch DP series batteries allow simultaneous use of batteries in series and parallel, with a maximum support of 4 series and 4 parallel applications. The connection method is: first in series, then in parallel, which...

• Page 19: Battery Communication

For example: 16 12.8V120Ah batteries, 4 in series & 4 in parallel System voltage: 12.8V * 4=51.2V System capacity: 120Ah * 4=480Ah 4.5 Battery communication 4.5.1 Communication terminal connection The EPOCH DP series batteries have the function of communication networking between batteries. When...

- Page 20 communication with external devices is needed, the networking function can be used to enable the battery to summarize information. The battery can be used alone or used for communication networking, which is more prominent in some intelligent devices. When using this

function, it is important to understand its purpose and carefully read the following instructions for correct operation.

• **Page 21: Networking Method**

4.5.2 Networking method: After connecting the battery through the communication cable, it is necessary to use the Bluetooth connection method through the smart APP to network the battery.

1. Equipment operation: Wiring: When all batteries are turned off, use the power line to connect the batteries in series and ①...

- Page 22 connected batteries, and then connect the second cluster of series connected batteries, cannot mix; The matching address must be selected battery1 as the master, and long press and hold its config button for 10s. Cannot select and press the config button of other slave batteries.

• **Page 23: App Interface Display**

Please refer to the APP user manual for details. 5. Charging requirements We recommend using a charging source with specific lithium charging settings to meet the following charging requirements to achieve the optimal performance and lifespan of Epoch DP series batteries.

• **Page 24: Ac-Dc Charger**

14.6V for a single battery), and then it must be turned off after the EPOCH DP series battery is fully charged. After the battery is fully charged, please turn to the recommended floating voltage.

• **Page 25: Passive Balance Function**

6. Battery recycling Epoch batteries are recyclable and should not be treated as household waste or landfill waste. If you need assistance in recycling batteries, please contact your dealer or EPOCH.

- Page 26 • The battery must be kept away from heat sources, high voltage, and directly exposed to sunlight. • Do not throw the battery into water or fire. • Do not invert the two terminals when using the battery. • Do not connect the positive and negative poles of the battery to the conductors. •...

This manual is also suitable for:

Dp12300h

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