



ISO9001 国际质量管理体系认证企业  
ISO9001 International Quality Management System Certified Enterprise

CZC7EP锂电池充电机概述

CZC7EP 系列智能充电机，用高性能嵌入式充电控制单元+断码屏人机界面组成的充电控制器，与锂电池BMS、电源模块通讯，控制输出的充电电流、显示各种充电过程参数，通过参数优化设计的主电路电源模块，为各种锂电池提供连续可调的充电电流，满足锂电池充电工艺要求。

充电控制器内置默认的充电曲线及多种 BMS 充电通讯协议，也可以根据用户需要，定制充电曲线，满足定制的充电工艺要求。

充电控制器实时监测充电过程中的各种参数，设置相关的充电参数，实现充电机的的各种保护功能，实时保护充电过程顺利进行。

Product introduction

CZC7EP series intelligent charger uses high-performance embedded charging control unit to control the charging current. The main circuit module designed by parameter optimization provides continuous adjustable charging current for various lithium batteries to meet various charging process requirements. The charging controller has built-in default charging curve and various BMS charging communication protocols. According to the needs of users, the customized charging curve and charging communication protocol can be set and stored in factory settings to meet the customized charging process requirement. The charger controller has a simple and practical man-machine interface. Charging parameters can be set on the LCD touch screen to display various parameters and states of the charging process, which is convenient for users to understand the charging process in real time. The charging controller monitors all kinds of parameters in the charging process in real time, so that the charger has perfect protection function and protects the charging process smoothly in real time.

► 本机适用于为使用锂电池作为动力的电动叉车、托盘车、AGV/小车等电动车辆的充电。

► This charger applies to electric forklift which drives by lithium batteries,pallet truck,AGV car and other electric vehicle's charging.

CZC7EP  
系列 锂电池充电机

CZC7EP Series  
lithium battery charger



► 主要特点：

- 充电控制器内置多种BMS充电通讯协议，通过CAN通讯与电池BMS进行数据交互。也可以根据用户需要定制的充电协议
- 充电控制器实时监测充电过程中的各种参数，具有完善的保护功能（开路、过流、过压、过热、缺相保护等），实时保护充电过程顺利进行。
- 段码屏实时显示充电参数，电池信息，模组信息，故障代码等参数；根据段码屏背光颜色可判断充电机工作，充足，故障等运行状态。
- 预约时间充电功能：可以设定定时充电，利用峰谷用电进行充电，节省电费。
- 脱落保护功能：充电中途连接线脱落，充电机自动停机(电池脱落检测)。
- 暂停功能：充电过程可以暂停，重新启动后，连续暂停前状态继续充电过程，确保充电过程连续运行。
- 掉电保护功能：设备得电后自动恢复到掉电前工作状态，实现无人值守。

► Description of product features

- The charging controller has built-in multiple BMS charging communication protocols, and exchanges data with the battery BMS through CAN communication. Charging protocols can also be customized according to user needs.
- The charging controller monitors various parameters in the charging process in real time, and has perfect protection functions (open circuit, overcurrent, overvoltage, overheating, phase loss protection, etc.), which can protect the charging process smoothly in real time.
- The segment code screen displays charging parameters, battery information, module information, fault code and other parameters in real time; the operating status of the charger can be judged according to the backlight color of the segment code screen.
- Appointment time charging function: You can set a scheduled charging, use peak and valley electricity for charging, and save electricity costs.
- Drop protection function: If the connection line drops off during charging, the charger will automatically stop (battery drop detection).
- Pause function: The charging process can be paused. After restarting, the charging process will continue in the state before the continuous pause to ensure continuous operation of the charging process.
- Power-off protection function: After the equipment is powered on, it will automatically return to the working state before power-off to achieve unattended operation.

主要技术参数 Main Technical Parameter

| 项目<br>Item<br><br>规格<br>Parameter<br>Type | 额定输入电源<br>( Vac )<br>Input power<br>supply | 额定输入功率<br>Rated<br>input power<br>(KVA ) | 输入电流<br>Input current<br>( Aac ) | 最大输出<br>电流<br>Max output<br>current<br>( Adc ) | 最大输出<br>电压<br>Max output<br>voltage<br>( Vdc ) | 净重<br>Net<br>weight<br>(Kg) | 通讯方式<br>Communic-<br>ation mode | 防护等级<br>IP Grade | 外形尺寸<br>weight<br>( mm ) |
|-------------------------------------------|--------------------------------------------|------------------------------------------|----------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------|---------------------------------|------------------|--------------------------|
| CZC7EP-D60/100R                           | 三相 380<br><br>50Hz/60Hz                    | 6.7                                      | 10.1                             | 100                                            | 60                                             | 10                          | CAN                             | IP21             | 555*260*330              |
| CZC7EP-D60/200R                           |                                            | 12.9                                     | 19.6                             | 200                                            | 60                                             | 9.5                         |                                 |                  | 555*260*330              |
| CZC7EP-D100/65R                           |                                            | 7.2                                      | 11.0                             | 65                                             | 100                                            | 9                           |                                 |                  | 555*260*330              |
| CZC7EP-D100/80R                           |                                            | 8.6                                      | 13.1                             | 80                                             | 100                                            | 21                          |                                 |                  | 555*260*330              |
| CZC7EP-D100/100R                          |                                            | 10.8                                     | 16.3                             | 100                                            | 100                                            | 32                          |                                 |                  | 555*260*330              |
| CZC7EP-D100/150R                          |                                            | 16.1                                     | 24.5                             | 150                                            | 100                                            | 24                          |                                 |                  | 555*260*330              |
| CZC7EP-D100/200R                          |                                            | 21.5                                     | 32.7                             | 200                                            | 100                                            | 32                          |                                 |                  | 555*260*330              |

注:清单中列出了部分常规规格，根据客户要求，特殊规格，可以定制!  
Its only list part of product models in the table, We do customized commissioned works to meet Special charging requirements and configurations

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We will provide the best service for user both during selling and after-sales. Welcome the customer to choose our products. Please, I informus the type and specification of battery, we can recommend the most suitable discharger for you.

上海施能电器设备有限公司  
SHANGHAI SHINENG ELECTRICAL EQUIPMENT CO.,LTD.

地址:上海市浦东新区航头镇航鸣路22号(201316)  
营销部: 021- 58222666 58224888  
技术支持: 021-58228080  
传真: 021-58222888  
电子邮箱: shineng@shineng.com  
网址: www.shineng.com

Address:No.22Hangming Rd. Hangtou Town Pudong New District, Shanghai(201316)  
Sales Dept.: 021-58222666 58224888  
Tech Support: 021-58228080  
Fax: 021-58222888  
E-mail: shineng@shineng.com Http: //www.shineng.com