

## ► Operating mode

This device could support several operating modes, including charge mode, discharge mode and circulation mode of charge and discharge. Parameters such as current, voltage and time maintained for every stage could be set according to the battery maintenance technology.

### a) Charge mode

- Total four charge modes could be chosen, as follows,
  - Charge mode of constant current, constant voltage, low constant current (IUla);
  - Charge mode of constant current, constant voltage (IUa);
  - Constant current, constant voltage, float charge mode (IUUa);
  - Initial charge mode (Ila).

### b) Discharge mode

Discharge mode would be performed through the method of constant current control. In the discharge process, discharge current would keep constant. When discharging large-power loaded resistor, this would not cause pollution to the grid.

### c) Circulation mode of charge and discharge

Circulation mode would combine together charge and discharge process, achieving the automatic transfer between these two processes. Charge & discharge cycle times and its time intervals could be set based on the actual situation, which would provide much convenience to the maintenance of batteries.

## ► 产品主要性能:

- 采用工业级彩色触摸屏, 实时显示充、放电参数和状态, 显示故障信息, 实时查看当前的工作曲线; 并可读取曲线上各点的充电电流、电压、容量及时间;
- 具有自动翻档功能, 根据所接蓄电池电压, 充放电机电自动识别并切换主变压器次级档位和大功率电阻器对应档位, 实现自动翻档功能, 无须人员操作;
- 对各类电池的充放电工艺程式及参数, 用户可事先选择对应的充电曲线。曲线上各阶段参数可事先设置, 也可在充、放电工作过程中在线设置或修改; 充放电电机将根据设置或修改参数自动完成整个充放电;
- 对于用户设置的参数, 系统可长久记忆, 停电也不丢失;
- 对电网无相序要求, A、B、C三相输入可任意接线;
- 具有延时启动、软启动、软关断保护功能;
- 具有开路、接反、过流、过压、过热、电源缺相等的故障保护和报警功能;
- 具有暂停功能: 充放电过程可以暂停, 重新启动后, 延续暂停前状态继续充放电过程, 确保充放电过程连续运行;
- 具有复位功能, 确保系统重新开始工作;
- 具有掉电保护功能: 设备得电后自动恢复到掉电前工作状态, 实现无人值守;
- 充放电过程中, 蓄电池连接线脱落, 充放电机电自动关机;
- 具有充放电过程数据、曲线记录存储功能, 可存储3000次以上充电信息。通过SD卡自动记录每次充放电全过程详细参数变化情况, SD卡的数据可通过电脑打印输出。

## ► Technical Feature:

- Through the application of industrial color touch screen, this device could not only display the charge & discharge parameters, its operation status and fault information, but monitor its working curve in real time. Parameters of each point in the curve such as charge current, charge voltage, charge capacity and charge time could be readable.
- Function of automatic switch. Referring to the battery voltage, this device could automatically identify and switch the secondary tap position of main transformer and shift to the corresponding tap position of large-power loaded resistor, achieving the function of automatic switch.
- Referring to the charge & discharge process and parameters of batteries, Users could set ahead of time not only corresponding charge curve, but curve parameters at each stage. Parameters could also be set and modified online in the charge and discharge process. This charger would complete the whole process automatically according to the selected parameters.
- The parameters set by users would be recorded persistently. The data would not be lost if and when the power is terminated.
- Phase sequence would not be required for power grid. The three phase input, A & B & C could be randomly connected.
- Function of start-up delay, soft start-up and soft shutdown.
- Fault protection function, such as open circuit, battery reversal, overcurrent, overvoltage, overheating, lack of equal protection function and warning function.
- Pause function. This device could suspend the charge & discharge process. After restart, this device would recover to the previous status. Make sure the charge & discharge process would continue to run.
- Reset Function. Make sure this system would back to the normal situation.
- Power failure protection function. When turned on or when the power is reset, this device would automatically recover to the previous status, achieving the goal of unmanned safe guarding.
- In the charge and discharge process, this device would shutdown automatically if and when battery connecting wire falls off.
- Function of recording and storing charge & recharge process data and charge curve. This device could store the charge information for more than 3000 times. SD card would automatically record the details of parameter changes in every charge and discharge process. Data stored in SD card could be printed out.

## 主要技术参数一览表 Main Tech.Data

型号规格 Type (A / V)	额定输入电源 Rated input power (V) 50Hz	输入电流 Input current AC A	充放电电流 Charge and discharge current DC A	充电电压 Charge Voltage (V)	充电输出功率 Power output (kW)	可充放 蓄电池组电压 Battery packs (V)	外形尺寸 Size (mm)	重量 Weight (Kg)
HCF5-65/165	三相380V、 50Hz	16	0~65	0~165	10.8	24~120	900×595×1751	285
HCF5-80/165		20	0~80	0~165	13.2	24~120		310
HCF5-100/165		25	0~100	0~165	16.5	24~120		342
HCF5-65/210		21	0~65	0~210	13.7	24~144		310
HCF5-80/210		26	0~80	0~210	16.8	24~144		325
HCF5-100/210		32	0~100	0~210	21.0	24~144		370

特殊规格, 特殊设计。For special specification, tailor designed

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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 inform us the type and specification of battery, we can recommend the most suitable discharger for you.

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