



产品适用范围：

- 电动卷帘门、道闸、车库门；
- 电动双开门、平移门、电动窗、电动晾衣架；
- 智能家居直流设备；
- 网络、通信终端设备；
- 中小功率 UPS、风力、太阳能储能后备电源；
- 医疗设备、仪器仪表；
- 12V 和 24V 直流备用电源应用场合；

主要参数指示

项目	指标
充电回路与放电回路：	相同的端口（同口）
输出标称电压：	12V / 24V （可选）
输入电压范围：	29.4-45V
电池容量：	2.6Ah / 5.2Ah （可选）
BMS 导通内阻：	< 20mΩ
单节电芯电压检测精度@25℃：	± 10mV
最大可持续放电电流：	7.5A 15A 20A
平衡电流：	60-100mA
最低平衡收敛压差：	15mV
SOC 估算精度@25℃：	优于 5%
通信总线方式：	SMBUS

后备电源 PI8SCxxxBP 系列产品

是由锂离子电池组成的绿色环保、高效便携、长使用寿命的后备电源，专为替代传统的铅酸电池而设计。主要适用于家庭终端设备、智能家居设备、电动门、电动窗等 12V 和 24V 直流后备电源场合；配合逆变器可组成 UPS 备电系统。产品由优质锂离子电池加带有完善保护功能的管理系统组成，其核心采用进口高可靠性 MCU，对锂电池各种工作状态进行实时监控和管理，并维护电池的一致性，延长电池组的使用寿命；后备态管理和完善的保护技术让电池组拥有了高可靠性、高安全性、长寿命周期等特点。改变生活从 PI8SCxxBP 电源产品开始。



应用示例

PI8SCxxxBP- 系列后备电源

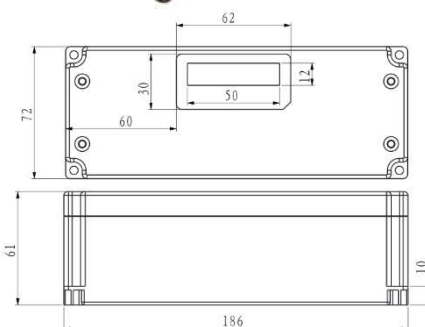
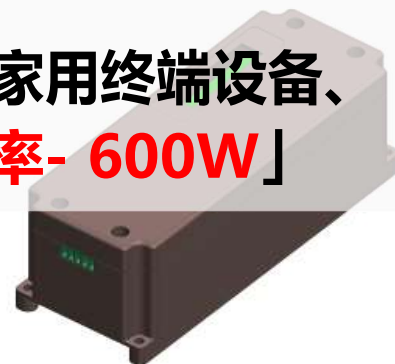
适用于电动门窗、道闸、智能家居设备、家用终端设备、
12V/24V 直流设备等电源备电领域「功率- 600W」

功能：

- 最多 8 通道单体电池检测和保护控制；
- 支持电池组总电压的过充电和过放电，第二级保护控制；
- 集成 2 通道温度检测和高低温保护；
- 高效率的电池动态平衡管理；
- 充放电独立 2 通道电流检测和保护功能；
- 放电短路保护功能；
- 可选配动态高精度 SOC 电量计量模块，可实时给出电池组精确剩余容量；
- 支持 SMBUS 通信接口或干节点通信方式与上位机进行通讯；
- 支持最多 5 段 LED 状态指示或电量显示功能；

特点：

- 自带前端高精度电压检测电路，过压检测精度可达 10mV，可以精确地对电池的过充和过放电进行管理，以及很好地保证电池的一致性和安全性；
- 采用“智能平衡管理技术”，大大提高了对电芯成组一致性收敛能力和使用寿命。
- 可根据不同负载情况调整功率，支持 2.6Ah 和 5.2Ah 容量可选。
- 过电流及短路保护后，无需移除负载可自动恢复，便于后备电源系统的远程维护。
- 绿色环保，安全可靠，长寿命。



后备电源结构尺寸示意图



Product application scope

- Electric shutter doors, barriers, garage doors ;
- Electric double door, sliding door, power window, electric clothes hanger ;
- Smart home DC equipment ;
- Network, communication terminal equipment ;
- Small and medium power UPS, wind, solar energy storage backup power ;
- Medical equipment and instruments ;
- 12V and 24V DC Backup Power Applications ;

Main parameter indication

Charge & discharge port:	Same port		
Output nominal voltage:	12V / 24V (choose)		
Input voltage range:	29.4-45V		
Battery rated capacity:	2.6Ah / 5.2Ah (choose)		
BMS conduction resistance:	< 20mΩ		
Detection accuracy@25°C:	± 10mV		
Maximum discharge current:	7.5A	15A	20A
Balance current:	60-100mA		
Balance voltage:	15mV		
SOC accuracy@25°C:	1%-10% (choose)		
Communication mode:	SMBUS		

Backup power PI8SCxxxBP series products.

It is a green, efficient, portable and long-life backup power of lithium-ion batteries designed to replace conventional lead-acid batteries. It is mainly applicable to 12V and 24V dc backup power supply for home terminal equipment, smart home appliance, electric door, electric window, etc; With the inverter, the backup power system UPS can be formed. The product is composed of high quality lithium ion battery and management system with perfect protection function. Its core adopts the imported high reliability MCU. To monitor and manage the various working status of lithium battery, maintain the consistency of the battery and extend the service life of the battery. The backup management and perfect protection technology make the battery pack have the characteristics of high reliability, high security and long life cycle. Change your life from the PI8SCxxxBP power source.



Application example

Backup power PI8SCxxxBP series products

Suitable for electric door, smart home appliance, home terminal equipment,

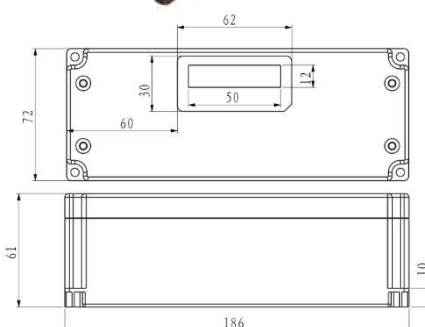
12V/24V Dc equipment and other power supply fields [POWER - 600W]

Main function:

- Maximum 8 channel single battery detection and protection control ;
- Support the battery pack total voltage overcharge and overcharge, the second level protection control ;
- Integrated 2 channel temperature detection and high temperature and low temperature protection ;
- Efficient dynamic balance management of battery ;
- Charge and discharge independent 2 channel current detection and protection function ;
- Discharge short circuit protection function ;
- The dynamic high-precision SOC battery measurement module can give the accurate residual capacity of the battery pack in real time ;
- Support SMBUS communication interface or dry node communication mode with upper computer ;
- Supports up to 5 LED status indicators or power display functions ;

Main features:

- Comes with front high precision voltage detection circuit, over voltage detection accuracy can reach 10 mv, could precisely for overcharge and over discharge of the battery management, and ensure the consistency and security of the battery very well ;
- Adopting "intelligent balance management technology", it greatly improved the convergence ability and service life of the core-forming group ;
- The power can be adjusted according to different load conditions, and 2.6Ah and 5.2Ah capacity can be selected ;
- After the current and short circuit protection, the load can be automatically restored without removing the load, so as to facilitate the remote maintenance of the backup power system ;
- Green environmental protection, safe and reliable, long life.



Structural dimension diagram