



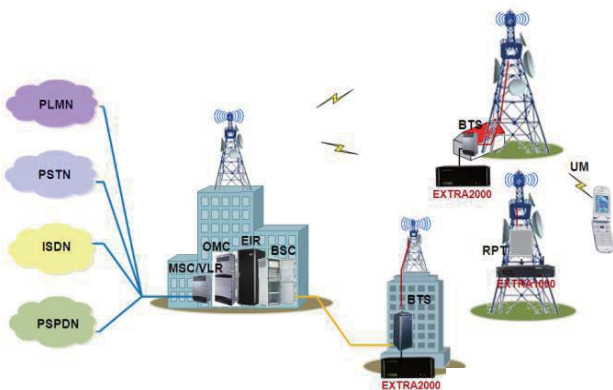
Base Station Power Backup Solution
Lithium Iron Phosphate Batteries- [BP48100](#)

With the continuous development of social requirements, business room space of operator has become tighter. This trade brought stricter requirements for battery power backup in size and weight. Also the rapid development of economy increased the pressure on the mains supply, and the frequent power outages result greatly reducing of lead-acid battery performance for backup, which gives a huge procurement and maintenance costs for operators.

As a leading industry provider of lithium iron phosphate backup solutions, focus on this type of problems, Pylontech put forward integrated high performance service of backup power protection for operators without occupying extra room space.

Small and Medium Capacity Backup Power Solutions

Some scenarios require depth coverage, the wireless base stations are usually distributed placed, device consumption is small, and mains failure time is short. It recommended battery configures one by one with each device in small base station for problems caused by frequent power outages, in addition, with small size and easy installation, our battery can be flexibly installed in the narrow scenario, especially in the tower, wall hanging and pole holding device, at the same time, it achieves unified management and easy maintenance through remote monitoring and management system.



Small and Medium Capacity Backup Power Solutions Network

Large Capacity Backup Power Solutions

In the scenario of gathered station or marginal station, the devices placed concentrated or very far away. When main power fails, because of high consumption or long distance, both require centralized backup power solutions with larger capacity backup power systems for longer duration, and our battery can be cascaded based on actual demand to provide unified backup power for site to ensure continuing operation for long duration, at the same time, through the network management remote monitoring, achieve unified management and easy maintenance.



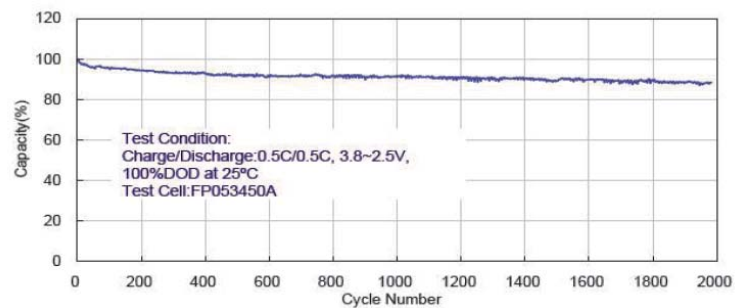
Large Capacity Backup Power Solutions Network

Comprehensive advantages

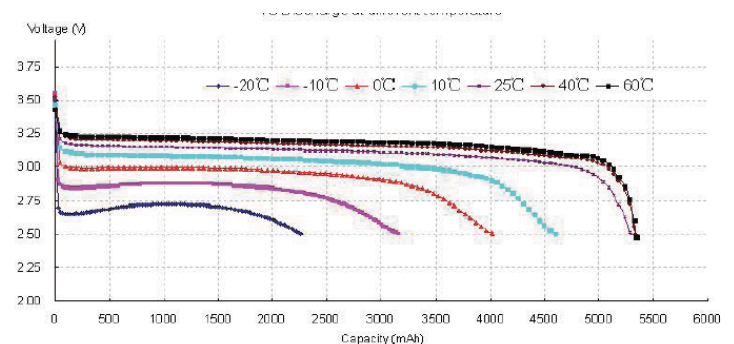
- Low Total Cost of Ownership
- Long life cycles reduces cost of average life expectancy;
- High energy efficiency reduces procurement costs;
- Small size, it need less space for the same capacity;
- Maintenance-free brings lower cost.
- High Adaptability to Environment
- The operation temperature range is from -10°C to 50°C ;
- It is suitable for frequent outages and no memory effect;
- It is designed for dustproof structure.
- Intelligent Battery Management System
- Each single module is designed for load distribution;
- Intelligent design makes charging mode can be adjusted according to battery charging status automatically ;
- The lossless and equalization charging technology makes charging current adjustable;
- The central processor design, cooperates with multiple monitoring modules, can fully monitoring battery information.
- High Security
- The battery passed drop and collision test;
- The battery will be not burning or explosion in case of acupuncture, baking and other extreme statues;
- Multiple safety protection, it provides protection function in high current, voltage, or temperature.

System Management Function

Real-time info gather and upload
Charge ending protection
Discharge ending protection
High and low temperature alarms and protection
Charge over voltage, over current alarms and protection
Discharge low voltage alarm and protection
Charge over current alarm and protection
Discharge over current alarms and protection
Reverse alarm and protection
Short-circuit alarm and protection
Protection auto recovery
Intelligent charging and discharging management
Lossless balanced management
Webmaster remote monitoring
Fault Logging recording
Online upgrade system
Lightning protection design



Life Cycle Curve



$-20\sim 60^{\circ}\text{C}$ 1C Rate Discharge Curve

Specification

Basic Parameters	BP48100
Norminal Parameters	
Voltage (V)	48
Capacity (Ah)	100
Capacity (Wh)	4800
Structural Parameters	
Width (mm)	442
Depth (mm)	420
Height (mm)	130.5
Weight (Kg)	38
Electrical Parameters	
Operating Voltage(V)	42~54
Charge Voltage(V)	52.5~54
Charge/Discharge Current(A)	100
Peak Charge/Discharge Current(A)	155 (500ms)
Communication	
Network Interface	RS485/RS232/Dry
Life (20 °C/77°F)	10 years
Life Cycles (80% DOD, (20 °C/77°F)	>4500
Maintenance	Maintenance Free in warranty period
Storage Time	6 Months power off
Operation Temperature	-10°C~60°C (14°F ~140°F)
Storage Temperature	-20°C~60°C (4°F ~140°F)
Seismis Standard	GR-1089
EMC Standard	IEC 61000, EN55022
Environmental Standard	GB/T 2423
The Authentication Level	UN38.3