

NILE LiFePO4 solutions are more advanced, highly efficient and has many advantages over the traditional Lead Acid battery.

Our batteries weigh less, charge faster, last longer, do not release gas, and have anti-theft, communication and remote monitoring functions.

Here introducing popular LFP series battery of Platin Iran which is high demanding among telecom industry users for its most advanced features:

## **Advantage**

### **⊘** Safer:

- Excellent deep cycle ability:≥4500 cycles@100%DOD;
- 15+ years design life;
- Adopt Grade A LiFePO4 cells from TOP5 manufacturer in the world;
- Built-in smart BMS with intelligent automatic protection for overcharge, over discharge, over current, shortcircuit and over temperature etc.:
- IEC62619, UN38.3, CE, RoHs, etc.;

# Smarter:

- High compatibility with most brands of rectifier as a system, HUAWEI, DPC, etc.;
- Support GPRS, SNMP remote monitoring;
- Optional GPS, gyroscope anti-theft function;
- Modbus protcol available, RS485 port;

### Simpler:

- Space-saving 19-inch standard rack mount design;
- Modular design, easy to install;
- Supports max 15 sets in parallel to expand capacity;
- No maintenance required through out the lifetime;

## **Specificaitons**

Nominal Characteristics	
Battery Model	PT48LFP100
Nominal Voltage	48V
Nominal Capacity	100Ah
Nominal Energy	4800Wh
ElectricalCharacheristics	
Recommended Boost Charging Voltage	54±0.5V
Recommended Float Charging Voltage	54±0.5V
Recommended Charging Current	20A
Maximum Charging Current	100A
Maximum Discharging Current	100A
Operating Conditions	
Cycle Life	≥4500 Cycles@100%
	DOD@25°C
Roundtrip Efficiency	≥98%
Operating Charge Temperature	0°C to +50°C
Operating Discharge Temperature	-20°C to +60°C
Storage Temperature	-20°C to +60°C
Mechanical Characteristics	
Length x Width x Height	480 x 483 x 177 mm
Weight	42.5Kg
Terminal	M6
IP Rating	IP20

# **Application**

- · Base transceiver station
- · Communication equipments
- · Central office
- · Microprocessor based office machine
- UPS



### How to work:

#### 1. Grid backup power:

When the grid is normal, the grid will supply power to the load through the rectifier and charge the battery at the same time, when the grid fails, the battery will supply power to the load.

### 2. PV energy system:

In the daytime, the PV will power to the load and store the excess power in the batteries. In the evening, use the power from the batteries to power the load.

#### 3. Generator energy system:

Battery priority to the load power supply, when the battery is full discharged, can control the generator to turn on the power supply to the load, and charge the battery at the same time.

When the battery is full, automatically shut down the generator, switch to the battery to the load power supply.

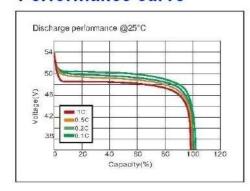


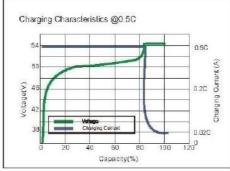


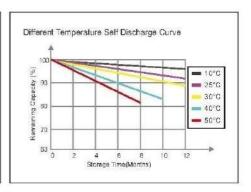


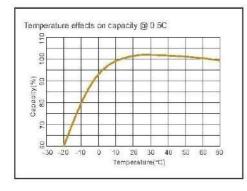


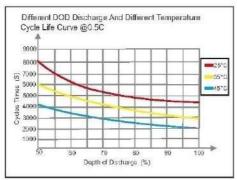
#### Performance curve

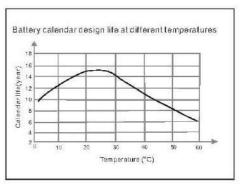














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