

Multi-application - LiFePO₄ Power

UE-24Li2900WH



LITHIUM IRON PHOSPHATE BATTERY



1. Introduction

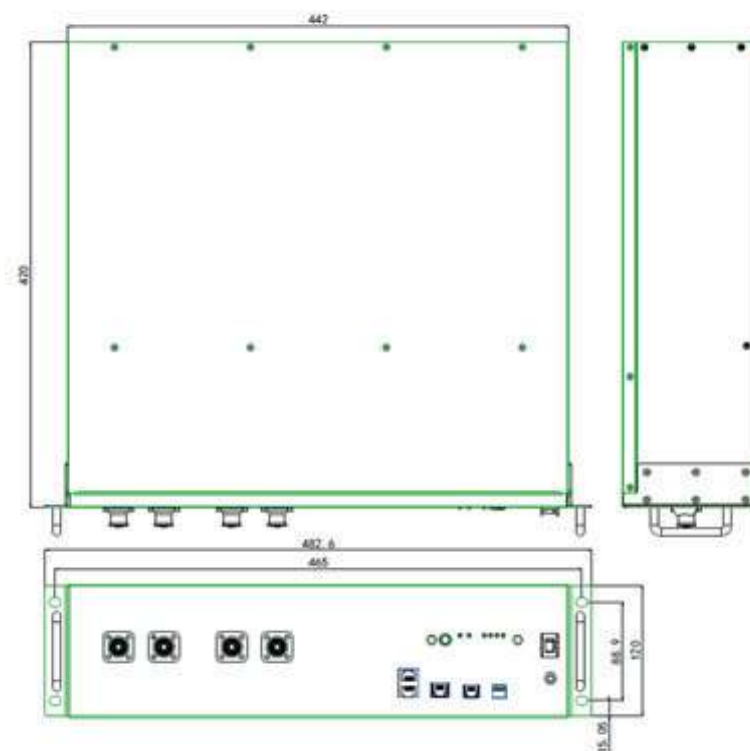
UE-24Li2900WH lithium iron phosphate battery is one of new energy storage products developed and produced by Upower, it can be used to support reliable power for various types of equipment and systems. **UE-24Li2900WH** is especially suitable for application scene of high power, limited installation space, restricted load-bearing and long cycle life. **UE-24Li2900WH** has built-in BMS battery management system, which can manage and monitor cells information including voltage, current and temperature, further provide protection base on above information. The BMS can also balance cells during charging to extend cycle life. Multiple batteries can connect in parallel to expand capacity and power in parallel for larger capacity and longer power supporting duration requirements.

2. Features

- The whole module is non-toxic, non-polluting and environmentally friendly;
- Cathode material is made from LiFePO₄ with safety performance and long cycle life;
- Battery management system (BMS) has protection functions including over-discharge, over-charge, over-current and high/low temperature;
- The system can automatically manage charge and discharge state and balance current and voltage of each cell;
- Flexible configuration, multiple battery modules can be in parallel for expanding capacity and power;
- Adopted self-cooling mode rapidly reduced system entire noise;
- The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge;
- Working temperature range is from -10°C to 55°C, (Charging 0 ~ 55°C; discharging -10 ~ 55°C) with excellent discharge performance and cycle life;
- Small size and light weight, standard of 19-inch embedded designed module is comfortable for installation and maintenance.



3. Specifications



Basic Parameters	UE-24Li2900WH
Nominal Voltage (V)	25.6
Nominal Capacity (Wh)	2840
Usable Capacity (Wh)	2550
Dimension (mm)	442*420*120
Weight (Kg)	26.5
Discharge Voltage (V)	23.2 ~ 28.5
Charge Voltage (V)	28.2 ~ 28.5
Recommend Charge / Discharge Current (A)	55
Maximum Charge / Discharge Current (A)	85
Peak Charge / Discharge Current (A)	100A @ 15 sec
Communication	RS485 / CAN
Configuration (Maximum in 1 Battery Group)	20 pcs
Working Temperature	0°C ~ 55°C Charge
	-10°C ~ 55°C Discharge
Shelf Temperature	-20°C ~ 45°C
Ingress Protection	IP20
Humidity	5% ~ 95% RH
Altitude	< 2000 m
Certification	IEC62619 / CE/ RoHS / UN38.3
Design life	10+ Years (25°C / 77°F)

