

# LiFePO<sub>4</sub> 24V 60Ah

## Lithium-ion battery system

LAF2460 a powerful 24V LiFePO<sub>4</sub> battery product, has been designed to provide power backup for solar street light & Camera etc., which is high IP level, suitable for underground & outdoor application.

### Benefits

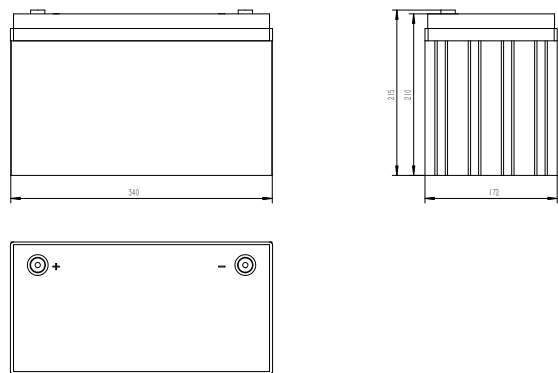
- Increased energy in given space
- Easy installation
- High operational reliability
- Excellent long life time
- Preventive but not premature replacement at end of life

### Standards

- IEC 60950
- IEC 62321
- IEC 62133
- UN38.3
- UL1642
- Passed ISO9001,ISO1001,OHSAS 18001 certification

### Specifications

### Drawing

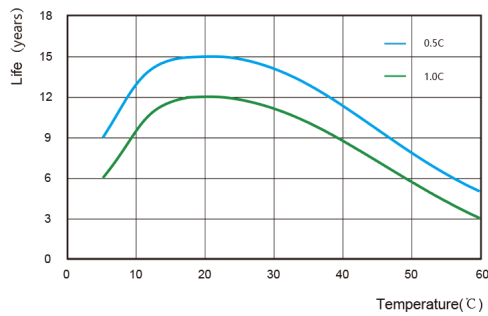


Nominal Characteristics		
Nominal Voltage		24V
Typical Capacity		60Ah(25°C )
Typical Energy		1280 Wh
Volumetric Energy Density		104.8Wh/dm <sup>3</sup>
Gravimetric Energy Density		99.2 Wh/kg
Dimensions	Width	340mm
	Height	210mm
	Depth	172mm
Typical Weight		13Kg
Electrical Characteristics		
Voltage Window		21.6~28.8V
Charge Voltage Range		28.0~28.8V
Max. Permanent Discharge Current		50A
Max. Permanent Charge Current		50A
Faradic Charge Efficiency		99% (+20°C)
Energy Charge Efficiency		94% (+20°C)
Communication Interface (optional feature)		N/A
Additional Features (optional feature)		/
Operation Environment		
Charge Temperature		0°C to +55°C
Discharge Temperature		-20°C to +60°C
Storage Temperature		-20°C to +60°C
Protection Class		IP68

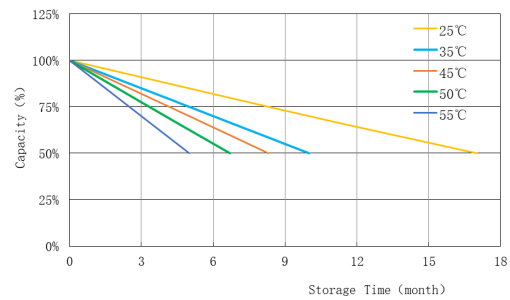
## Discharge Data

Constant Current Discharge Data(25°C)											
Voltage/V	Current/A	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1.0C
	Time/h										
24.0		8.333	4.033	2.600	1.908	1.417	1.033	0.233	0.142	0.225	0.058
23.2		9.450	4.658	3.083	2.333	1.842	1.542	1.258	0.967	0.883	0.750
22.4		10.137	5.078	3.377	2.605	2.092	1.700	1.492	1.292	1.150	1.033
21.6		10.183	5.092	3.400	2.625	2.100	1.717	1.500	1.300	1.175	1.042

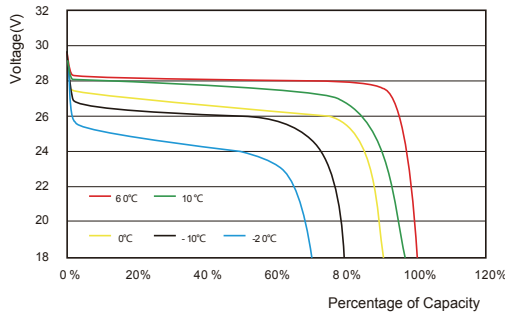
## Performance Curve



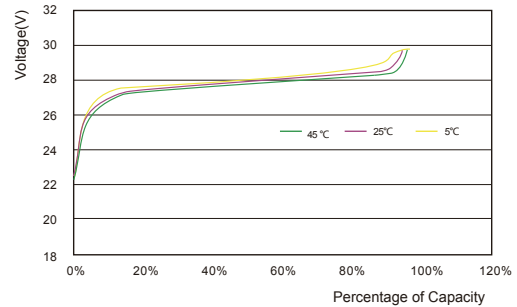
Design life at Different temperature



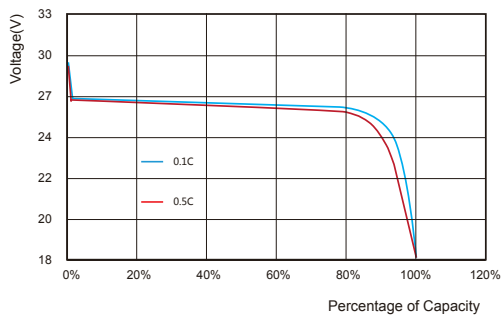
Storage time at Different temperature



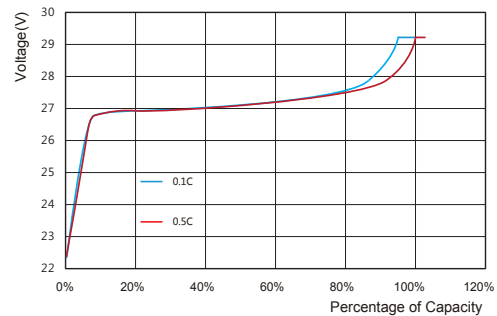
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

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