

# LiFePO<sub>4</sub> 24V100Ah

## LiFePO<sub>4</sub>24100 Lithium-ion battery

LiFePO<sub>4</sub> 24100, a powerful 24V LiFePO<sub>4</sub> battery product, has been designed to provide power backup for solar street light, which is high IP level, suitable for underground application.



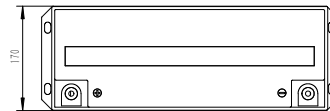
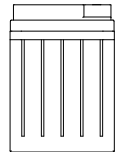
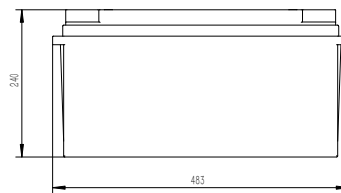
### Benefits

- 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

### Drawing



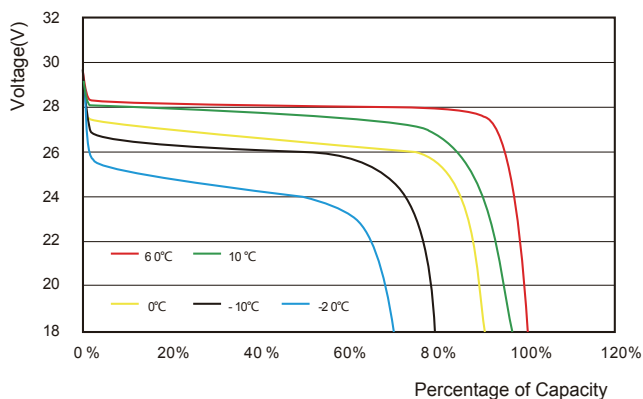
### Specifications

Nominal Characteristics		
Nominal Voltage		24V
Typical Capacity		100Ah(25°C )
Typical Energy		2400 Wh
Volumetric Energy Density		121.8 Wh/dm <sup>3</sup>
Gravimetric Energy Density		117 Wh/kg
Dimensions	Width	483mm
	Height	240mm
	Depth	170mm
Typical Weight		20.5Kg
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

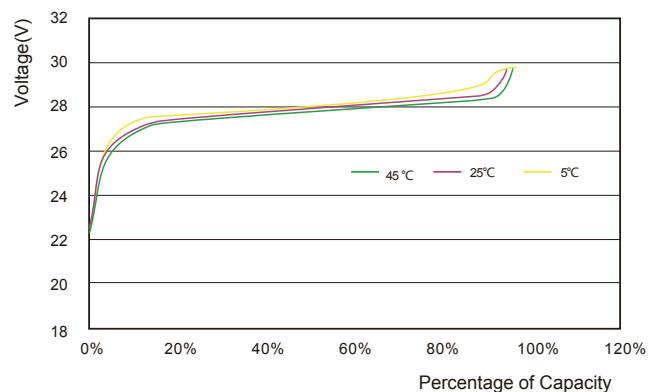
## Discharge Data

Constant Current Discharge Data(25°C)						
Voltage/V	Current/A	0.1C	0.2C	0.3C	0.4C	0.5C
	Time/h					
24.0		9.475	4.858	3.254	2.420	1.925
23.2		9.927	4.948	3.309	2.453	1.960
22.4		10.003	4.996	3.344	2.494	1.990
21.6		10.101	5.044	3.359	2.510	2.001

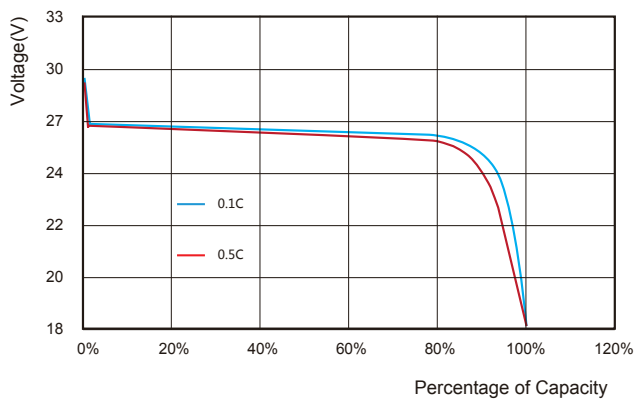
## Performance Curve



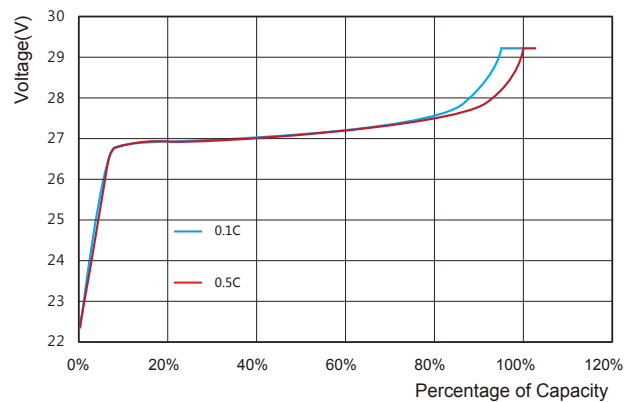
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

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