

# Smart Power 12V200Ah

## LAF12200 Lithium-ion battery system

LAF12200, a powerful 12.8V LiFePO4 battery product, has been designed to provide power backup for remote or outside telecom plants like Access Terminals, Base Transceiver Stations, Base Station Controllers.



### Benefits

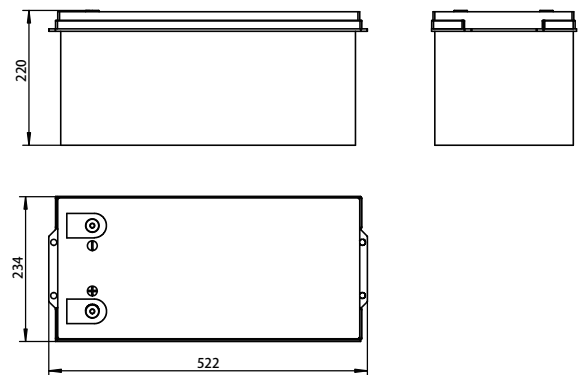
- Increased energy in given space
- Easy installation
- Maintenance-free
- High operational reliability
- Excellent long life time
- Preventive but not premature replacement at end of life

### Standards

- IEC 60950
- IEC 62321
- IEC 62133
- UN38.3
- UL1642
- Passed ISO9001/ISO1001/ISO45001 certification

### Specifications

### Drawing

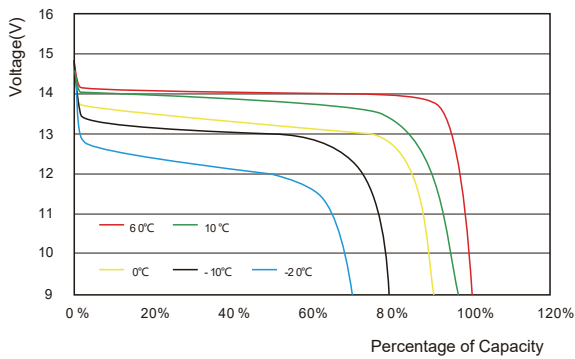


<b>Nominal Characteristics</b>		SCIFP12200
Nominal Voltage		12.8V
Typical Capacity		200Ah(0.2C, 25°C)
Typical Energy		2560 Wh
Volumetric Energy Density		95.3 Wh/dm <sup>3</sup>
Gravimetric Energy Density		106.7 Wh/kg
Dimensions	Width	522mm
	Height	220mm
	Depth	234 mm
Typical Weight		24Kg
<b>Electrical Characteristics</b>		
Voltage Window		10.8~14.4V
Charge Voltage Range		14.0~14.4V
Max. Permanent Discharge Current		100A
Max. Permanent Charge Current		100A
Faradic Charge Efficiency		99% (+20°C)
Energy Charge Efficiency		94% (+20°C)
Terminal		M8
Additional Features (optional feature)		--
<b>Operation Environment</b>		
Charge Temperature		0°C to +55°C
Discharge Temperature		-20°C to +60°C
Storage Temperature		-20°C to +60°C
Protection Class		IP20

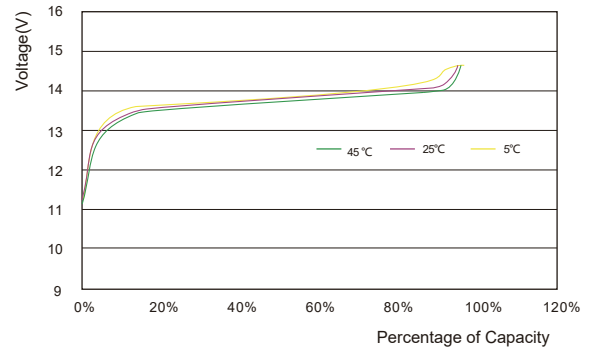
## Discharge Data

Constant Current Discharge Data(25°C)						
Voltage/V	Current/A	0.1C	0.2C	0.3C	0.4C	0.5C
	Time/h					
12.0		9.475	4.858	3.254	2.420	1.925
11.6		9.927	4.948	3.309	2.453	1.960
11.2		10.003	4.996	3.344	2.494	1.990
10.8		10.101	5.044	3.359	2.510	2.000

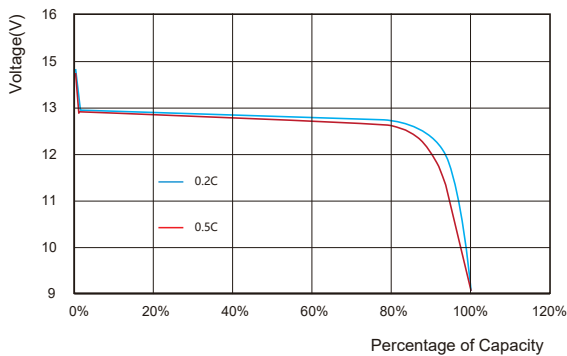
## Performance Curve



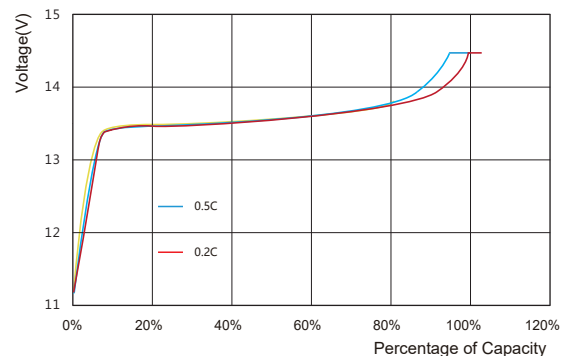
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

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