

SmartPower 12V100Ah

SCIFP12100 Lithium-ion battery system

LAF12100 (SCIFP12100), a powerful 12V 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.



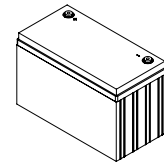
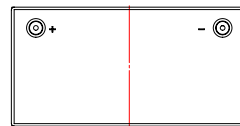
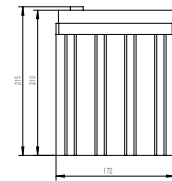
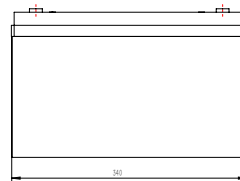
Benefits

- 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

Drawing



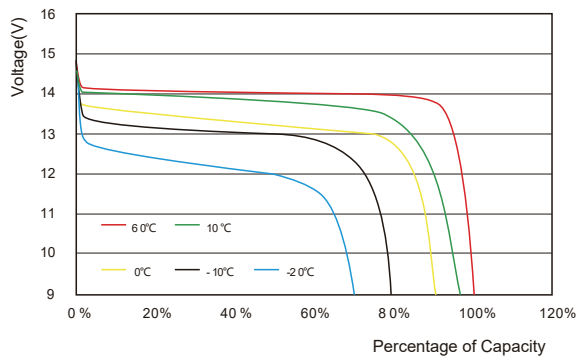
Specifications

Nominal Characteristics		LAF12100
Nominal Voltage		12V
Typical Capacity		100Ah(0.2C, 25°C)
Typical Energy		1280 Wh
Volumetric Energy Density		101.6 Wh/dm ³
Gravimetric Energy Density		106.7 Wh/kg
Dimensions	Width	340mm
	Height	215mm
	Depth	172 mm
Typical Weight		12Kg
Electrical Characteristics		
Voltage Window		10.8~14.4V
Charge Voltage Range		14.0~14.4V
Max. Permanent Discharge Current		50A
Max. Permanent Charge Current		50A
Faradic Charge Efficiency		99% (+20°C)
Energy Charge Efficiency		94% (+20°C)
Terminal		M8
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

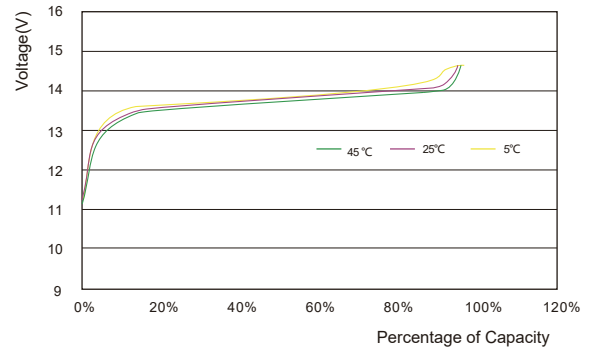
Discharge Data

Constant Current Discharge Data(25°C)						
Voltage/V	Current/A	0.1C	0.2C	0.3C	0.4C	0.5C
	Time/h					
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

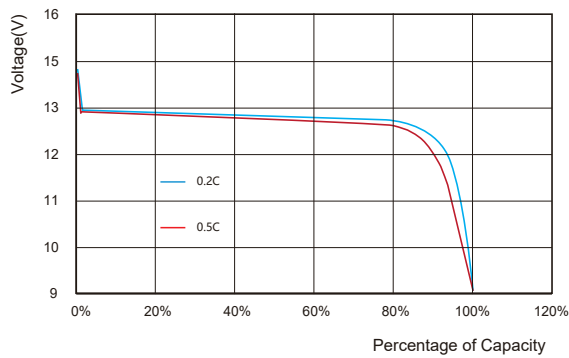
Performance Curve



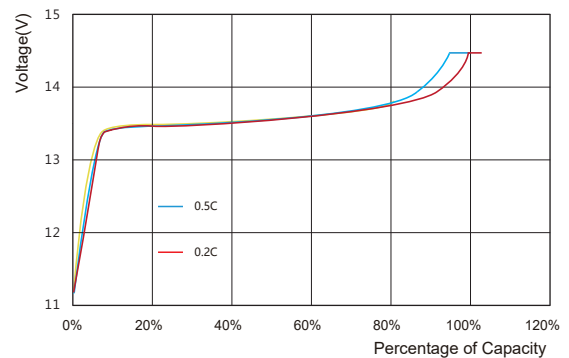
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

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