

High Energy

5U Rack-mount Lithium-ion Battery System

Model: SmartPower 48100

SmartPower 48100 ,a powerful 48V 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. They are also suitable to provide bulk power in Central Offices.



Advantages

- Increased energy in given space
- Easy installation and upscaling
- High operational reliability
- Optimized supervision strategy through remote control/diagnostic
- Very long life time
- Preventive but not premature replacement at end of life

Nominal Characteristics

Nominal Voltage	48V	
Typical Capacity	100Ah(25°C)	
Typical Energy	4800 Wh	
Volumetric Energy Density	122.3 Wh/dm ³	
Gravimetric Energy Density	102.1 Wh/kg	
Dimensions	Width	442mm(19")
	Height	222mm(5U)
	Depth	400mm
Typical Weight	47Kg	

Electrical Characteristics

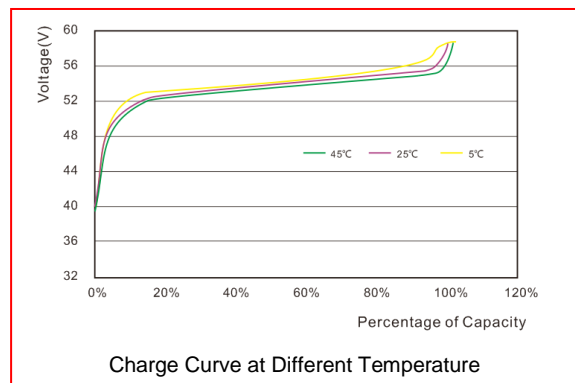
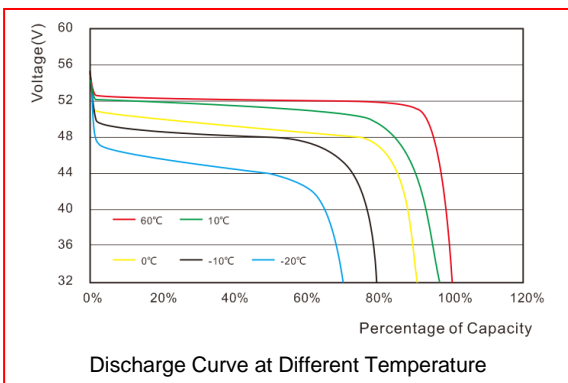
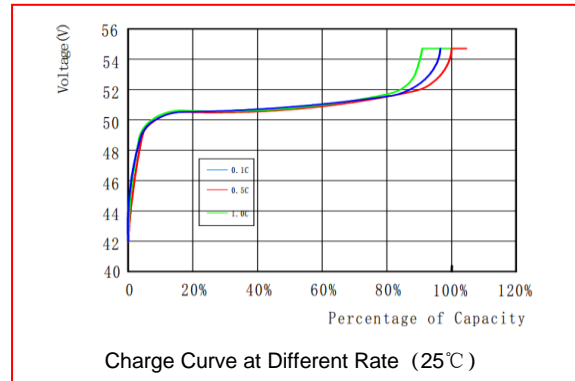
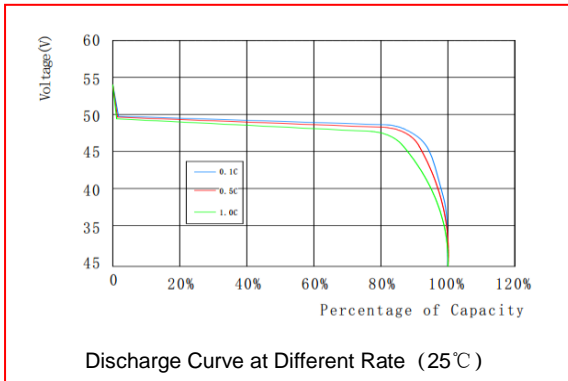
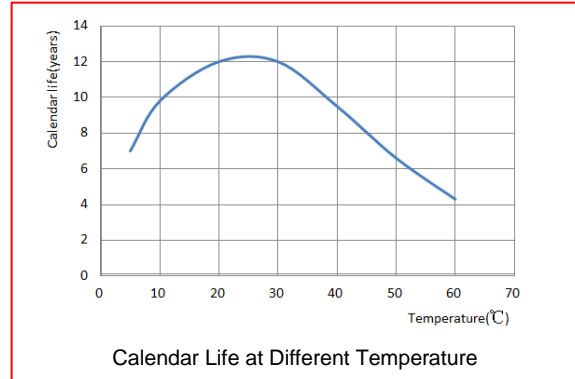
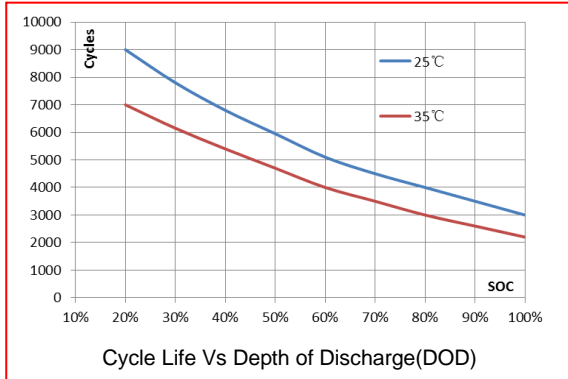
Voltage Window	40.5~54.0V
Charge Voltage Range	53.25~54.0V
Max. Permanent Discharge Current	100A
Max. Permanent Charge Current	100A
Faradic Charge Efficiency	99% (+20°C)
Energy Charge Efficiency	94% (+20°C)
Communication Interface (optional feature)	Modbus/SNMP
Additional Features (optional feature)	Display

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	IP20

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Performance Curve



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