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LITHIUM ION PHOSPHATE BATTERY(LIFEPO4)

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KVLI 48/51.2 100A-LCD LITHIUM ION PHOSPHATE BATTERY(LIFePO4)





High cycle life

4000 cycles @80% DoD for effectively lower total of ownership cost.



Longer service life

Low maintenance batteries with stable chemistry



Built in circuit protection

Battery Management System (BMS) is incorporated against abuse



Better storage

up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation



Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency



Kg

Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to $+60^{\circ}C$

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Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent

APPLICATIONS

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries.Suitable applications include:

- Solar Storage
- Switching applications and more
- Base transceiver station
- Communication equipments
- Central office
- Telecommunication systems
- Electronic cash registers
- Microprocessor based office machine
- UPS

CAUTIONS

- · Do NOT short circuit, reverse polarity, crush or disassemble.
- Do NOT heat or incinerate.
- · Do NOT immerse in any liquid.
- Store at 30~50% SOC. Recharging every 3 months is

recommended. The storage area should be clean, cool , dry and ventilated

Performance may vary depending on application. All specifications are subject to change without prior notice to the user . This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.

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LITHIUM ION BATTERY KVLI-100A-LCD

SPECIFICATION

Model/Parameters	KVLi-48100A-LCD		KVLi-51100A-LCD		
Rated Voltage	48V		51.2V		
Rated Capacity (0.2C,@25℃)	100Ah				
Rated Energy	4800Wh 5120Wh				
Cell & Pack	LiFePO4, Prismatic, Aluminum shell				
Output voltage range	43.2V~58.4V				
Charging voltage	58.4V, CC-CV				
	43.2V				
Max. Constant Charging current	100 A				
Recommended charging current	<50A, best @ 20A				
Recommended charging type	CC-CV until current <0.02C				
Max.Constant Discharging current	≤100A				
Efficiency	≥98%				
Built-in BMS					
Over-charge protection	Module>58.4V or Cell>3.65V				
Over-discharge protection	Module < 43.2V or cell < 2.7V				
Over-current protection Short circuit protection	Charging: >105A,delay 5S; >110A delay 3S; Discharging: >105A,delay 5S; >110A delay 3S; Short circuit: >350A				
Cell balance	Passive, 100mA				
Over temperature protection	Charging: <-5°C or >65°C Discharging: <-20°C or >65°C				
Case material	ABS				
Dimension L*W*H (mm) & Terminal	45.0±0.5				
Environment					
Humidity	5%~95% relative humidity				
Charging temperature	0°C~+45°C				
Discharging temperature	-20°C~+65°C				
Storage temperature	-20°C~45℃				
Cycle life	50% 80%	6DOD>6000 times DOD>3500 times	,@0.2C, @0.2C,	25℃ 25℃	
Design life		12 Year			

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ELECTRONIC PERFORMANCE DIAGRAM







0.20 60.0 58.0 56.0 ε^{54.0} 52.0 0.64 Gharge 42.0 40.0 0 60 120 180 240 300 360 Charge time (min)

Different DOD Discharge Cycle Life Curve @0.2C,25°C Open circuit voltage VS SOC @25°C



