LFeLi 48100W3 - Multi-protocol

LiFePO4 5120Wh specifications sheet



FEATURES



Longer Cycle Life - Offers up to 20 times longer cycle life & 5 times longer calendar life batteries, than lead acid minimizing replacement cost.



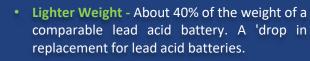
Superior Safety - Lithium Iron Phosphate chemistry eliminates explosion risk or combustion due to high impact, overcharging or short circuit situation. First life battery.



Higher usable capacity - Delivers high power, while maintaining cycling of double energy capacity of lead acid battery.



Wider Temperature Range - -20°C ~ 60°C.



Multi-protocol communication – Multiple protocols that can be selected via PC with an included RS232 cable.



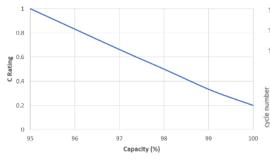
	ravan Power iver	Backup power for UPS systems
↑ ↑	Model	: LFeLi 48100W3
	Nominal voltage	51.2V
	Nominal Capacity	: 100Ah
	Energy	5120Wh
LEOCH LEELASIDOVICE BEDAVIDE (51.29 1000-512009)	Voltage range	48~55V (limit: 45~57.6V)
	nternal resistance	<50mΩ
	Cycle life:	>3500 cycles @ 100% DOD 25 °C
	Self discharge per month	<3%
	Charge voltage	: 57V (±0.6V)
	Charge current	Recommended 20~50A
450mm	Max Discharge current	: 100A Continuous (120-130A Pulse) [1C]
	Communication	: CAN or R485 (+RS232 to USB)
	Temperature Range	: -20~60°C

E-mail JHB: sales@averge.co.za Website: www.averge.co.za

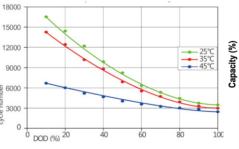
| E-mail CPT: salescpt@averge.co.za Address JHB : 16B Axle Drive Clayville, Olifantsfontein | Address CPT: unit 4, 4 Warbler Close, Montague gardens Tel JHB: +27 (0) 12 450 0940

Model	LFeLi-48100W3		
Charge:			
Rated Voltage:	51.2V (47.8V ~ 55V) [16 Cell]		
Range Limit:	[45V ~ 57.6V _{Max}]		
Recommended Charge Setting:	Bulk/Boost/Absorption: 57V Float: 55V		
Cut-off:	48~50V (without communication) 5-20% (with SOC settings)		
Rated Capacity:	100Ah (5120Wh)		
Max Charge current:	50A [100A _{Peak}]		
Max Discharge current:	100A [125A _{Peak}]		
Life:			
Max Cycles (Design life):	More than 16000 Cycles at 10% DOD (more than 20 years)		
Min Cycle life (Operating Life):	More than 3500 at 100% DOD (@ 25°C) (more than 9 years)		
DOD:	Recommended: 95% _{max} [Note consider connected device's low power consumption]		
Features:			
Soft-Start/Pre-charge:	0.1~0.2A (Allows low current start up for inverter such as Victron and Schneider that		
	do not include soft-start) (Inverter capacitor pre-charger)		
Built in DC Breaker:	125A DC breaker and power button.		
Auto Shutdown:	Low Cell sleep		
Over/Under-voltage protection:	Load disconnect		
Auto-Recovery:	Recovers: UVP with charge, OVP with discharge and balancing.		
Over/Under-Temp Protection:	Charging: 0 to +50°C Discharging: -20 to +50°C Storage: -20 to +60°C		
Charge Current Limiting:	To 20A (Settable) [Default activation: 60A, settable]		
Warrantee:	4-Years (extended 7 year)		
Communication:	RS485; RS232; CAN		
Flame Retardant:	UL94V-0		
Ratings:	IP54; CE-UN38.3; IEC62619; ISO14001; ISO9001		
Compatibility:			
Active protocols:	Sunsynk (Deye, Fusion), Schneider, Phocos, EAST, Victron, Lux power, Growatt, SolaX,		
	Goodwe, Imeon Energy, Selectronic, Sofar, Solis, Sungrow, Delios, Sematic		
General Data:			
Operating temperature:	15 ~ 35°C (0 ~ 60°C)		
Terminals:	Double Poled (rated 125A across terminal)		
Max relative humidity:	90%		
Net Weight:	49kg		
Display:	LCD + LEDs		
Alarm:	Led and buzzer (settable)		
Unit Dimensions [W×H×D]:	450 × 150(+20) × 620 (mm)		

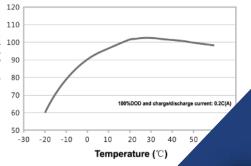
C-Rating in relation to capacity (25°C)



DOD Discharge Cycle Life Curve



Temperature To capacity curve



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