## 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.

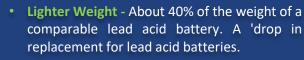


Higher usable capacity - Delivers high power, while maintaining cycling of double energy capacity of lead acid battery.



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



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



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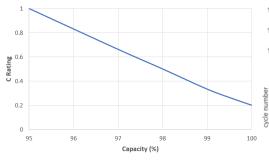
Solar/wind Energy Storage	Caravan		ackup power for PS systems
	↑	Model:	LFeLi 48100W3
		Nominal voltage:	51.2V
		Nominal Capacity:	100Ah
		Energy:	5120Wh
LEGENTER (FEL-48 100-W2L (61.2V 1054-012006)		Voltage range:	48~55V (limit: 45~57.6V)
	6	Internal resistance:	<50mΩ
	620mm	Cycle life:	>3500 cycles @ 100% DOD 25 °C
		Self discharge per month:	<3%
		Charge voltage:	57V (±0.6V)
		Charge current:	Recommended 20~50A
		Max Discharge current:	100A Continuous (120-130A Pulse) [1C]
← 450mm	150mm	Communication:	CAN or R485 (+RS232 to USB)
		Temperature Range:	-20~60°C

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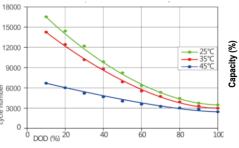
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Model	LFeLi-48100W3			
Charge:				
Rated Voltage:	51.2V (47.8V ~ 55V) [16 Cell]			
Range Limit:	[45V ~ 57.6V <sub>Max</sub> ]			
Recommended Charge Setting:				
Cut-off:	48~50V (without communication)   5-20% (with SOC settings)			
Rated Capacity:	100Ah (5120Wh)			
Max Charge current:	50A [100A <sub>Peak</sub> ]			
Max Discharge current:	100A [125A <sub>Peak</sub> ]			
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% <sub>max</sub> [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:	Charge or Discharge circuit 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:	10-Years (Limited)			
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)			

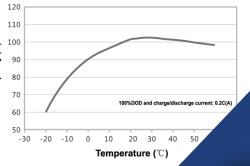
**C-Rating in relation** to capacity (25°C)



## **DOD Discharge Cycle Life Curve**



## **Temperature To** capacity curve



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