

The Next Generation of Battery Technology

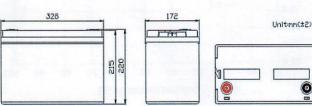
12 V 100 Ah Lithium Iron Phosphate (LiFePO4) Li-ion Battery

PN: Li100

Features

- ♦ Drop-in compatible for 12 V lead acid battery, maintenance Free
- ♦ About 40% 70% of the weight of a comparable lead acid battery
- 100 A discharge; charges in 2 hours
- · Safe: Lithium Iron Phosphate cells, no hazardous gases
- ◆ Thousands of cycles, to 100% DOD, under normal conditions
- Built-in protector BMS with cell balancing: over-charge, overdischarge, over-current and over-temperature
- Wide temperature range:-20 °C− 60 °C
- Supports up to 4 batteries in Series (51.2V)
- 6 year limited warranty
- · Some battery components may be recycled or repurposed

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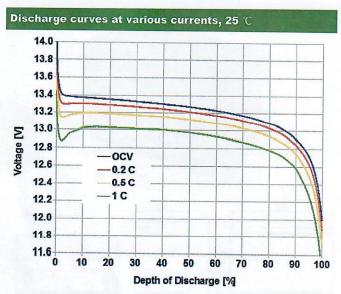
Applications

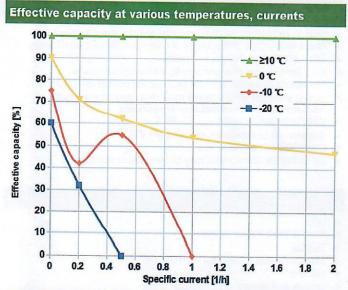
- UPS
- Solar & Wind Power System
- Mobility
- Electric Vehicle, E-bike, E-Rickshaw etc.
- Lighting
- Leisure and Marine

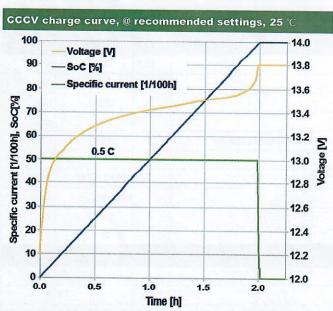
Specification	ıs		Min	Nom	Max	
Electrical	Voltage	Open circuit, 2 hour relaxation	12.0	13.3	14.4	V
	Capacity	1/20 C	3 (3)	100		Ah
	Energy	1/20 C		1280	The second	Wh
	Internal resistance	25 ℃		23		mΩ
	Cycle life	0.5C charging/discharging,25 °C, to 90% of nominal capacity		2000		Cycles
	Self discharge	25 ℃			3.5	% / month
Mechanical	Dimension	Including terminals	328	328 x 172 x 220		
	Connection			M8 bolts		
	Mass			13.1		Kg
	Ingress protection	Thermoplastic enclosure	IP55			-
Operating conditions			Min	Nom	Max	
CCCV charging	Constant current	CC stage ("bulk")			50	Α
	Peak current	10 s max ("regen")			75	A
	Constant voltage	CV stage ("absorption"), until current drops below 5 A, 2 hr max	13.7	13.8	14.4	V
	Float voltage			13.4	13.5	V
	Temperature		0		45	\mathcal{C}
Discharging	Continuous current				100	А
	Peak current	10 s max			150	A
	Cut-off voltage			11.2		V
	Temperature	the and public of these as	-20		60	°C
Environmental	Temperature		0		45	$^{\circ}$
	Humidity	Harris Committee	35		75	%

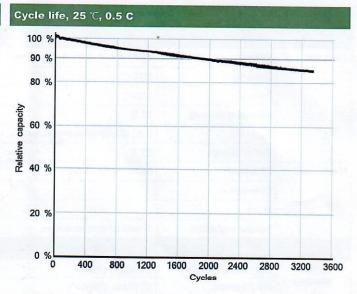
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Battery care

- Storage:
 - ◆ Bring to ~50 % charge, then store in a cool, dry place
 - Do not drop
- Charging:
 - A CV stage that lasts too long degrades the battery rapidly
 - Stand-by applications: exceeding 13.4 V degrades the battery
 - Charging is disabled below freezing; warm the battery first
 - Maximize capacity by regularly charging to the specified voltage
- Discharging:
 - If no voltage, the battery is off; charge it to wake it up

System design

- Though it may oriented in any direction, upright use is preferable
- Connect at most 4 in series, same type, same State of Charge

Refer to user manual for complete information.