48 V 100 Ah Iron Phosphate (LiFePO4) Li-ion Golfcart Battery

PN: Li48-105G

Features

- Drop-in compatible for lead acid golf cart battery, maintenance free
- ◆ About 40% 70% of the weight of a comparable lead acid battery
- 200 A discharge; charges in 10 hours with included charger
- ◆ 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
- ◆ 5 year limited warranty
- Some battery components may be recycled or repurposed

Applications

Golfcart/Utility

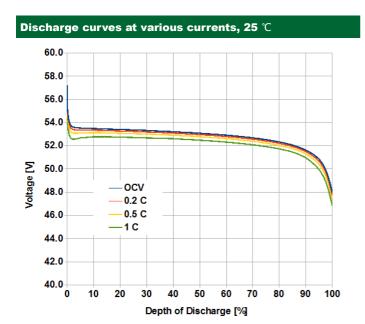


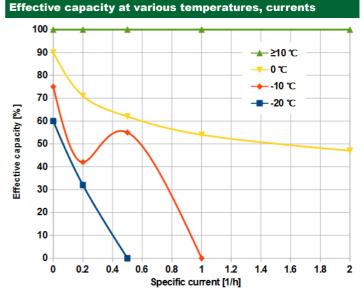
Specification	ns		Min	Nom	Max	
Electrical	Voltage	Open circuit, 2 hour relaxation	48.0	53.2	58.4	V
	Capacity	1/20 C		105		Ah
	Energy	1/20 C		5.5		kWh
	Internal resistance	25 ℃		14		mΩ
	Cycle life	0.5C charging/discharging,25 $^{\circ}$ C, to 90% of nominal capacity		2000		Cycles
	Self discharge	25 ℃			3.5	% / month
Mechanical	Dimension	Excluding power cable	38	380 x 280 x 290		mm
	Connection			M8 Stud		-
	Mass			42		Kg
	Ingress protection	Powder-coated steel enclosure		IP55		-
Operating conditions			Min	Nom	Max	
Charging	Voltage	Included charger, 50 or 60 Hz	180	240	260	Vac
	Current	240 Vac		2.7		Aac
	Temperature		0		45	℃
Regen	Peak current	10 s max			100	Α
	Voltage				55.6	V
Discharging	Continuous current				50	Α
	Peak current	10 s max			120	Α
	Cut-off voltage			44.8		V
	Temperature		-20		60	℃
Environmental	Temperature		0		45	°C
	Humidity		35		75	%

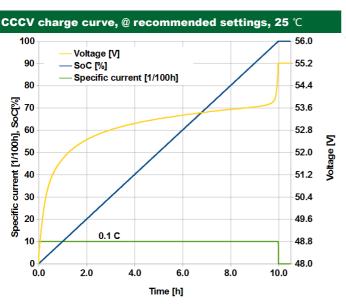


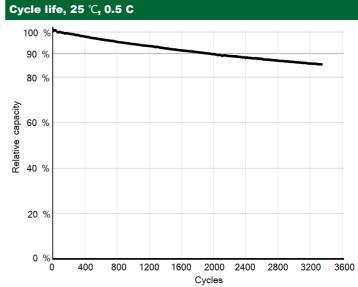
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Battery care

- 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 53.6 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

- ◆ Mount Upright
- ◆ DO NOT connect in parallel with other batteries, of any type
- ◆ DO NOT connect in series with other batteries, of any type

Refer to user manual for complete information.