



GreatVolt Cruze 51.2V 105Ah LiFePO4 Battery for Golf Cart.



Waterproof





Heating **Function**









Maintenance



Charging



Safe



*100A continuous | 330A surge for 35 seconds | 500A surge for 2 seconds





















CRUZE TECHNICAL SPECIFICATIONS

Electrical Specifications

Nominal Voltage	51.2V
Nominal Capacity	105Ah
Energy	5376Wh
Self Discharge	2-3% Per Month
Maximum Batteries in Series	NA
Maximum Batteries in Parallel	4
Built-in BMS	Internal
Resistance	<15 mΩ
Cell Chemistry	LiFePO4(Lithium Iron-Phosphate)

Mechanical Specifications

Dimensions	18.03"L X 13.11"W X 9.29"H
Weight	97 lbs.
Terminal Type	М8
Terminal Torque	619~974in-lbs(70~110N-m)
Case Material	Stainless Steel
Waterproof Level	IP67

Charging Specifications

Recommended Charge Current	0.2C/21A
Max Charge Current	50A
BMS Charge Current Protection	105A
Recommended Charge Voltage	58.4V
Reconnect Voltage	@ 54.5V
Balancing Voltage	@ 3.2V Per Cell
Charge Protection Voltage	60V

Integrated Heating Specifications

Heat	Integrated Heating Technology
Heating ON	Auto ON- > 10A and < 0°C
Heating OFF	Auto OFF- > 5°C
Continuous Power Draw (When Enabled)	400W
Required Minimax Charging Currentvtz	>10A

Discharging Specifications

Max Discharge Current	105A
Discharge Surge Currentl	200A for 60 seconds
Discharge Surge Current2	330A for 35 seconds
Surge for Loads Over	500A for 2 seconds
Recommended Low Voltage Disconnect	48V
BMS Discharge Cut-Off Voltage	40V
Reconnect Voltage	44.8V
Short Circuit Protection	Yes

Certifications

Certifications	UL1973,UL9540A,IEC62619
	for cells
	MSDS for shipping
	UN38.3

Temperature Specifications

Discharge Temperature	-4°F to 149°F(-20°C to 65°C)
Charge Temperature	32°F to 122°F(0°C to 50°C)
Storage Temperature	32°F to 95°F(0°C to 35°C)
Reconnect Temperature	Discharge 131 °F (55°C) Charge 113 °F (45°C)

Communication Protocols

CAN	✓
RS485	✓
UART	✓
Bluetooth	✓

- * Heating Charging in Subzero Weather will Automatilly turn on heating function.
- * Storage Please keep the battery in the cool and dry environment: Within 1 month -5°C~35°C or Within 6 months 0°C~35°C, relative humidity ≤75%, please charge the battery pack (around 50% SOC) regularly (every 60-90 days) to keep its chemistry active and longer lifespan. Long shelf time without charging the battery, the battery may completely depleted or totally died. Please DO remove the battery from your device when battery NOT IN USE for long time.















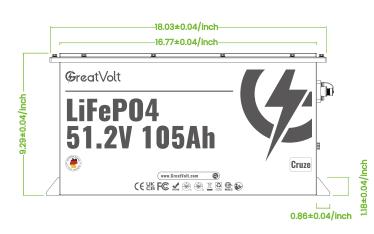




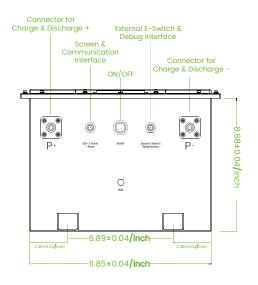


MICHANICAL DRAWING

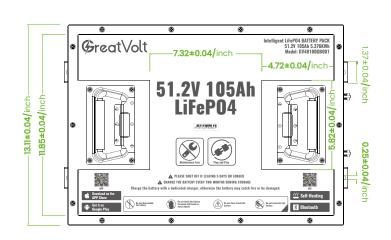




Front view



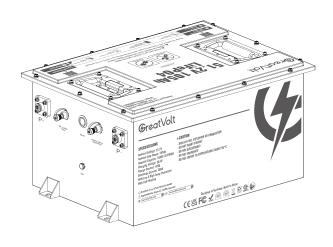
Side view



Top view



Rear view



Perspective





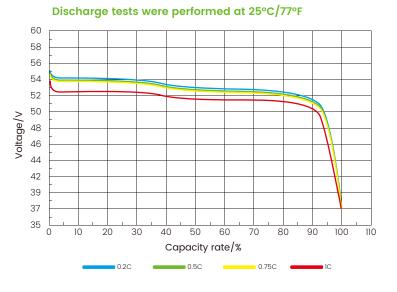


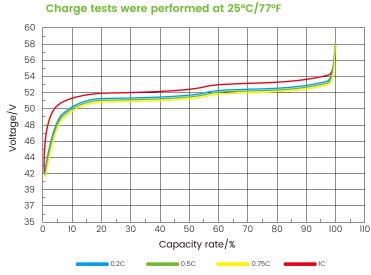


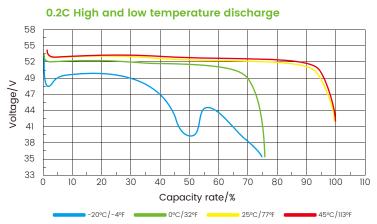


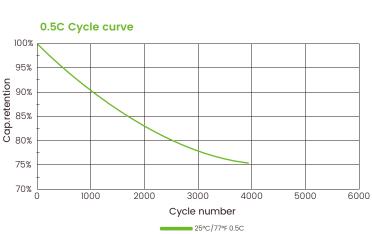


RATE CHARGE-DISCHARGE CURVE









PERFORMED OPERATION DATA FOR HEATED BATTERIES

