

LITHIONICS BATTERY®

LITHIUM-ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER:
GTX12V310A-E1508-CS200

Full UL Listed Version for OEM's: Bluetooth® APP, UL Listed Internal Heater, Fireproof Enclosure, RV-C CANbus Telemetry, Remote Switch, NeverDie® Reserve Energy, Battery Life Recorder.



INTERNAL BMS VERSION

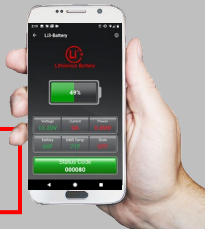
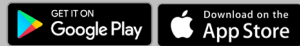
The "BOSS 302"



CERTIFIED®
SAFETY US
MH62316

UL LISTING
PENDING

Wireless Battery Monitoring via
Lithionics Battery® Monitor App



Application Note: Compatible with a Maximum Inverter Size of 3000 Watts. Do Not Connect to Larger Inverters or to Parallel-Connected Inverters. 3000W inverters must follow Published/Approved Installation Guides on the Resources/Support page of our website.

Item	Description
Model	GTX12V310A-E1508-CS200
Nominal Voltage	12.8V
Nominal Capacity (Ah)	310Ah
Nominal Watt Hours	4000Wh
Internal Resistance	≤5mΩ
Charge	
Charging temperature range	0 to 60C (32 to 140F), or -20 to 60C (-4 to 140F) with Heater
Charge voltage	14.4V
Recommended float charge voltage(for Recommended max charge current*)	13.4-13.6V
Allowed max charge current*	150A
Allowed max charge current*	200A
Discharge	
Discharging temperature range	-4 to 140°F (-20 to 60°C)
Operating Voltage Range	10.4V-13.4V
Recommended max discharge current*	150A
Max discharge current*	230A
Pulse discharge current (1 second)	1200A
Discharge cut-off voltage	NeverDie® Power Reserve @ 12.0V Low-Voltage Cut-Off @ 10.4V
Mechanical Characteristics	
Dimensions	Length 14.5" Width 8.5" Height 10.5"
Mounting Orientation	Upright position only (terminals up)
Weight	Approximately 63lbs (28.5kg)
Storage	
Storage	< 1 Month -4~95°F (-20~35°C), 45~75%RH
Temperature & Humidity Range	< 3 Months 14~86°F (-10~30°C), 45~75%RH
	Recommended storage 59~95°F (15~35°C), 45%RH~75%RH
Long Term Storage	If the battery needs to be stored for > 3 months the voltage
Self-discharge rate	Residual capacity ≤3% per month; ≤15% per year
	Reversible capacity ≤1.5%per month; ≤8% per year

* Maximum charging and discharging rates apply depending upon the ambient temperature and duty cycle of the system.

UL1973 tests of maximum charge and discharge current were performed at 25°C/77°F



30% Smaller than 3 x
100Ah Group31
Batteries

ENERGY

310 AMP HOURS

PULSE AMPS: 1200 (1 SEC)

4000 WATT-HOURS

INTERNAL NEVERDIE® BMS FEATURES

- NeverDie® Power Reserve (Spare Fuel) for Hotel Loads and Engine Cranking
- Over-Charge, Over-Discharge and Short-Circuit Protection (LVC, HVC, SCC)
- Low/High Temperature Charge/Discharge Protection
- Internal Heating Kit: Permits Charging as low as -20C/-4F
- Pushbutton On/Off switch for Safety and Storage
- Battery Gauge and Status Codes for Health Monitoring
- Bluetooth wireless telemetry with Lithionics Battery iOS and Android app
- CANbus telemetry in the RVIA RV-C format (M12)
- An alternator Field Control Circuit (FCC) (AMPSEAL8)
- Remote LED illuminated On/Off Power switch (AMPSEAL8)
- Auxiliary DC Breaker control (AMPSEAL8)

