## LITHIONICS BATTERY®

LITHIUM-ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER: GTX12V302A-E1508-CS200

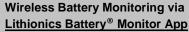
Full UL Listed Version for OEM's: Bluetooth® APP, UL Listed Internal Heater, Fireproof Enclosure, RV-C CANbus Telemetry, Remote Switch, NeverDie® Reserve Energy, Battery Life Recorder.



## **INTERNAL BMS VERSION**

## The "BOSS 302"









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		GTX12V302A-E1508-CS200
Nominal Voltage		12.8V
Nominal Capacity (Ah)		305Ah
Nominal Watt Hours		3904Wh
Internal Resistance		≤5mΩ
Charge		
Charging temperature range		-4 to 140°F (-20 to 60°C) OR -4F/- 20C with Heater Kit
Charge voltage		14.4V
Recommended float charge voltage(for		13.4-13.6V
Recommended max charge current*		150A
Allowed max charge current*		200A
Discharge	Carrene	20071
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
	If the hattery needs to h	be stored for > 3 months the voltage
Long Term Storage		
Long Term Storage Self-discharge rate	Residual capacity	≤3% per month; ≤15% per year

of the system.



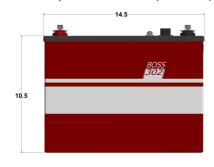


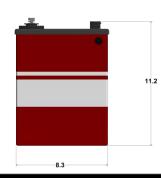
30% Smaller than 3 x 100Ah Group31 Batteries, with Extra 5Ah to Spare

**305 AMP HOURS PULSE AMPS: 1200 (1 SEC)** 3904 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)





UL1973 tests of maximum charge and discharge current were performed at  $25^{\circ}\text{C/77}^{\circ}\text{F}$