

# LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER:  
GT102V75A-8DR-CTRL200

INTERNAL BMS  
VERSION



**NEVERDIE®**

Item	Description	
Model	GT102V75A-8DR-CTRL200	
Nominal Voltage	102.4	
Nominal Capacity	75	
Nominal Watt Hours	7680	
Internal Resistance	<300 milliohms	
<b>Charge</b>		
Charging temperature range	32F/0C to 113F/45C	
Charge voltage	116.8	
Recommended float charge voltage(for standby use)	107.2	
Recommended max charge current	50	
Allowed max charge current	100	
<b>Discharge</b>		
Discharging temperature range	-4F/-20C to 131F/55C	
Output Voltage Range	92.8 - 107.2	
Recommended max discharge current	100	
Max discharge current	150	
Pulse discharge current (not suitable for engine cranking)	750	
Discharge cut-off voltage	NeverDie® Power Reserve at 96.0V Low Voltage Cut-Off at 92.8V	
<b>Mechanical</b>		
Dimensions	Length 23.0" Width 13.0" Height 13.4"	
Weight	Approx. 155lbs (70.3kg)	
<b>Storage</b>		
Storage Temperature & Humidity Range	< 1 Month	-4~95°F (-20~35°C), 45~75%RH
	< 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 should be 13.2V (50%SOC), and stored at the recommended storage specifications shown above. Additionally, the battery needs at least one charge & discharge cycle every six months.	
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

### INTERNAL NEVERDIE® FEATURES

- miniBMS® Cell/Module Sensors and Microprocessors with Automatic Cell Balancing
- NeverDie® Power Reserve (Spare Fuel) for Hotel Loads and Worry-Free Power for Engine Cranking
- 100% Pure Copper Power Transmission (No Restrictive Nickel, Aluminum, or MOSFETS)
- UL Approved Temperature Protection System
- UL Approved Fully Redundant Protective Safety Circuits
- Over-Charge, Over-Discharge and Short-Circuit Protection (LVC, HVC, SCC)
- Military Grade/Military Approved Hermetically-Sealed UL508 Approved Gas-Filled Pure Silver-Alloy Contactor with Aux-Contact Monitoring Circuit and Internal Arc-Suppression.
- Available NeverDie® Internal Heating Kit: Permits Charging Operations at -20C/-4F Continuous (Most Models....Please Confirm with Factory)
- Pushbutton Storage Operation



ENERGY

75 AMP HOURS

PULSE AMPS: 750 (1 SEC)

7680 WATT-HOURS

### WARNING

- LITHIUM BATTERIES ARE NOT DESIGNED FOR CHARGING IN SUB-FREEZING TEMPERATURES. CONTACT LITHIONICS BATTERY® FOR DETAILS ON OUR COLD WEATHER PACKAGE.
- INSTALLATION: IT IS RECOMMENDED THAT BATTERIES BE INSTALLED CABLE OR TERMINAL SIDE UP.

NOTE: CONTACT LITHIONICS BATTERY® FOR A USER INSTALLATION GUIDE & STORAGE PROCEDURES. FOLLOW THE GUIDE TO ENSURE FITNESS OF USE & WARRANTY.

**102V**  
GT  
SERIES