

# LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER:  
GTR24V150A-5DM-DIN-MODULE

EXTERNAL BMS  
VERSION



**EXTERNAL BMS REQUIRED**

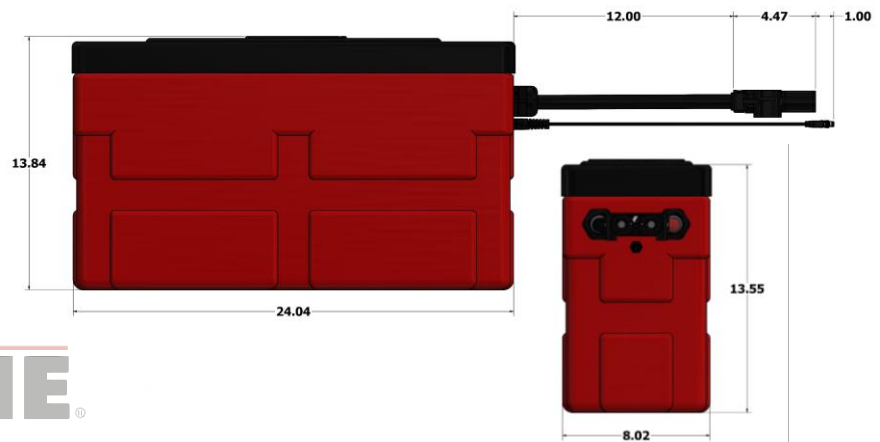
**BMS SOLD SEPARATELY. SEE BMS DATA SHEET PROVIDED BY LITHIONICS BATTERY®.**

| Item  | Description  |                                |
|---|--|--------------------------------|
| Model   | GTR24V150A-5DM-DIN-MODULE  |                                |
| Nominal Voltage                                   | 25.6   |                                |
| Nominal Capacity                                  | 150  |                                |
| Nominal Watt Hours                                | 3840   |                                |
| Internal Resistance                               | <300 milliohms   |                                |
| <b>Charge</b>                                     |  |                                |
| Charging temperature range                        | 32F/0C to 113F/45C   |                                |
| Charge voltage                                    | 29.2   |                                |
| Recommended float charge voltage(for standby use) | 26.8   |                                |
| Recommended max charge current*                   | 75   |                                |
| Allowed max charge current*                       | 150  |                                |
| <b>Discharge</b>                                  |  |                                |
| Discharging temperature range                     | -4F/-20C to 131F/55C   |                                |
| Operating Voltage Range                           | 23.2 to 26.8   |                                |
| Recommended max discharge current*                | 150  |                                |
| Max discharge current*                            | 225  |                                |
| Pulse discharge current                           | 1500   |                                |
| Discharge cut-off voltage                         | NeverDie® Power Reserve @ 24.00<br>Low-Voltage Cut-Off @23.2   |                                |
| <b>Mechanical</b>                                 |  |                                |
| Dimensions  | Length 24.0"<br>Width 8.0"<br>Height 13.85"  |                                |
| Weight  | Approx. 82lbs (37.2kg)   |                                |
| <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



**NEVERDIE®**



ENERGY

**150 AMP HOURS**

**PULSE AMPS: 1500 (1 SEC)**

**3840 WATT-HOURS**

**WARNING**

1. LITHIUM BATTERIES ARE NOT DESIGNED FOR CHARGING IN SUB-FREEZING TEMPERATURES. CONTACT LITHIONICS BATTERY® FOR DETAILS ON OUR COLD WEATHER PACKAGE.
2. 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.

**24V**  
**GTR**  
**SERIES**