

# LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS



MODEL NUMBER:  
24V185A-5DM-DIN-MODULE

EXTERNAL BMS  
VERSION



**EXTERNAL BMS REQUIRED**

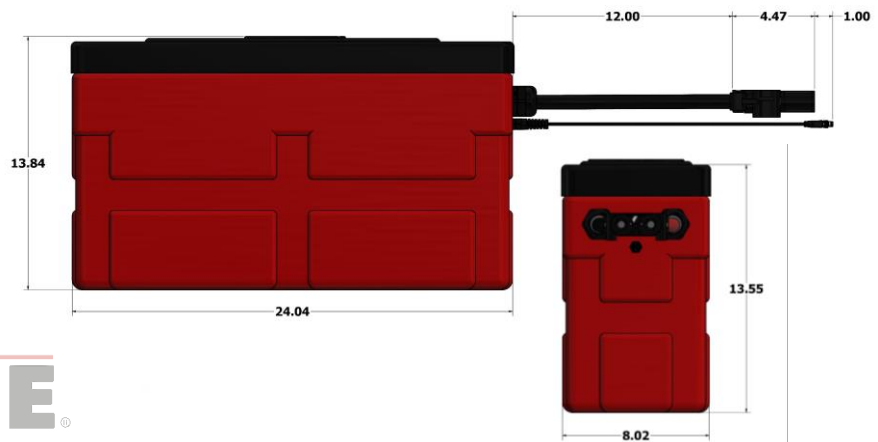
**BMS SOLD SEPARATELY. SEE BMS DATA SHEET PROVIDED BY LITHIONICS BATTERY®.**

Item	Description
Model	24V185A-5DM-DIN-MODULE
Nominal Voltage	25.6
Nominal Capacity	180 to 190 Amp Hours
Nominal Watt Hours	4700
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*	100
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*	100
Max discharge current*	180
Pulse discharge current	2000
Discharge cut-off voltage	NeverDie® Power Reserve @ 24.00 Low-Voltage Cut-Off @23.2
<b>Mechanical</b>	
Dimensions	Length 24.0" Width 8.0" Height 13.85"
Weight	Approx. 120lbs (54.4kg)
<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
Long Term Storage	If the battery needs to be stored for > 3 months the voltage should be 26.4V (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

**185 AMP HOURS**

**PULSE AMPS: 2000 (1 SEC)**

**4700 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  
STANDARD  
SERIES**