



Lithium "6T" Starting/Deep Cycle Battery



Navitas System's upcoming Ultanium™ will be the first lithium 6T battery to feature "Type 3" performance (high energy density) with "Type 1" safety rating. Navitas Systems Ultanium 6T batteries are engineered to meet the demanding requirements of heavy duty vehicles.

Specifications

	Ultanium™ 24V 6T
ELECTRICAL PERFORMANCE CHARACTERISTICS	
Electrical Arrangement	7S, 3P
Nameplate Capacity	99 Ahr
Nominal Capacity at 28.5 V charge (C/20)	99 Ahr
Nominal Capacity at 28.5 V charge (C/10)	99 Ahr
Nominal Capacity at 28.5 V charge (C/5)	95 Ahr
Nominal Capacity at 28.5 V charge (1C)	92 Ahr
Max Continuous Discharge Current @ 25°C	500 A
Max Pulse Discharge Current	1100 A
Cold Crank Current (30 Second Pulse @ -18°C)	1100 A @ 14.4 V
Cold Crank Current (30 Second Pulse @ -40°C)	400 A @ 14.4 V
Charging Voltage @ 25°C	28.5 V per MIL-PRF-32565 29.4 V allowable (capacity will increase by approx. 10%)
Max Pulse Charging Current (10 sec @ 25°C)	500 A
Max Continuous Charge Current @ 25°C	180 A
LIFE CHARACTERISTICS	
Self Discharge (Loss per month)	<2%
Cycle Life @ 100% DOD to 75% of Original Capacity	1,000 Cycles

Specifications (cont'd)

OPERATION AND MAINTENANCE CHARACTERISTICS	
Operating Temperature Range	-46°C to +71°C
Storage & Transportation Temperature Range	-54°C to +88°C
CAN Bus (SAE J1939) Communications	Yes
MIL-STD-J1939 & MIL-STD-1275D Compatibility	Yes
Communications Connector on Top of Battery	Yes
Built-in Cell Balancing	Yes
Self Shut-down	Yes
Cell Overvoltage/Undervoltage Protection	Yes
Cell Over/Under-Temperature Protection	Yes
Battery Over-Current Protection	Yes
Battery Terminal Reverse Polarity Protection	Yes
Long Term Storage Mode	Yes
Compatibility with Alternator Charging	Yes
UN 38.3 Transportation Classification	Pending
MECHANICAL CHARACTERISTICS	
Energy Density	200 W-hr/L
Specific Energy	100 W-hr/kg
Aluminum Construction	Yes
Designed to Meet Military EMI/EMC per MIL-STD-461F	Yes
Designed to Meet Vibration, Shock & Immersion per MIL-STD-810G	Yes
Weight	28 kg
Dimensions (Compliant with MIL-PRF-32143B)	229mm(H) x 266mm(W) x 286mm(D) / 9in(H) x 10.5in(W) x 11.25in (D)

