



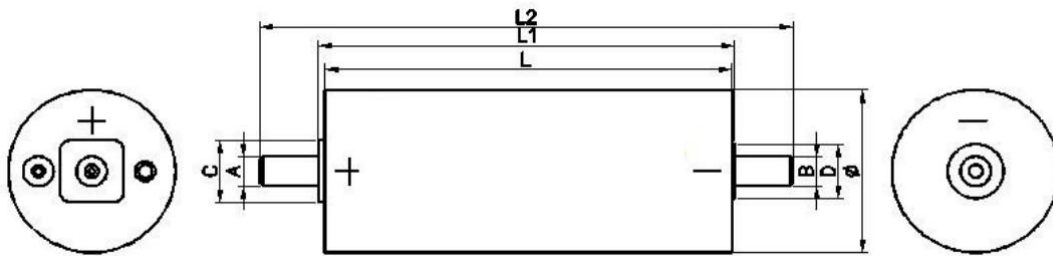
Product Brochure

40Ah Lithium Titanate Battery Cell

INTRODUCTION

ELB's high-performance Lithium Titanate (LTO) battery technology delivers high power and energy density combined with excellent safety performance and extensive life cycling in a lighter weight, more compact package. Our cells have low capacity loss and impedance growth over time as well as high usable energy over a wide state of charge (SOC) range, allowing our systems to meet end-of-life power and energy requirements with minimal pack oversizing.

SCHEME OF THE CELL STRUCTURE



Code	Ø	L	L1	L2	A	B	C	D
Standard	66	161	163.5	209.5	M12	M12	25*25	Ø22
Tolerance	±1.0	±1.0	±1.0	±1	/	/	±0.5	±0.5

(Units: mm)

MAIN FEATURES

- Advance Lithium Titanate Technology
- 20000tims cycle life@100%DOD.
- Super low temperature performance(Work at -50 °C)
- Allows super fast 10C charge and high current discharge. (6-15minutes full-charge time)
- Super safe lithium titanate (LTO) chemistry have no risk of explosion or combustion due to high impact, over-charging or short circuit situation.
- Allows high efficiency charge and discharge cycles.
- Faster charging and lower self-discharge.

TECHNICAL DATA

ELECTRICAL SPECIFICATION	
Nominal Voltage	2.3V
Nominal Capacity	40AH
Stored Energy	92Wh
Resistance(AC 1kHz LCR)	1 mΩ
Maximum Continous Charge Current	240A(6C)
Maximum Continous Discharge Current	240A(6C)
Maximum Pulse Charge/Discharge Current (10s)	400A(10C)
Charge Cut-off Voltage	2.9 V
Discharge Cut-off Voltage	1.5V
Cycle life(25°C)	>20000 times@100%DOD

MECHANICAL SPECIFICATIONS	
Dimensions (mm)	D66×H161 (± 1.0mm)
Weight	1240kg
Terminal Type	M12

TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-40 to 65 °C
Charge Temperature	-40 to 65 °C
Storage Temperature	-5 to 35 °C

APPLICATION

COMMERCIAL SOLUTIONS

Advanced lead acid replacement batteries for:

- + Datacenter UPS
- + Telecom backup
- + IT backup
- + Autonomously guided vehicles (AGVs)
- + Industrial robotics and material handling equipment
- + Medical devices

GOVERNMENT SOLUTIONS

- + Military vehicles
- + Military power grids
- + Soldier power
- + Directed energy

GRID SOLUTIONS

- + Frequency regulation
- + Renewables integration
- + Reserve capacity
- + Transmission and distribution

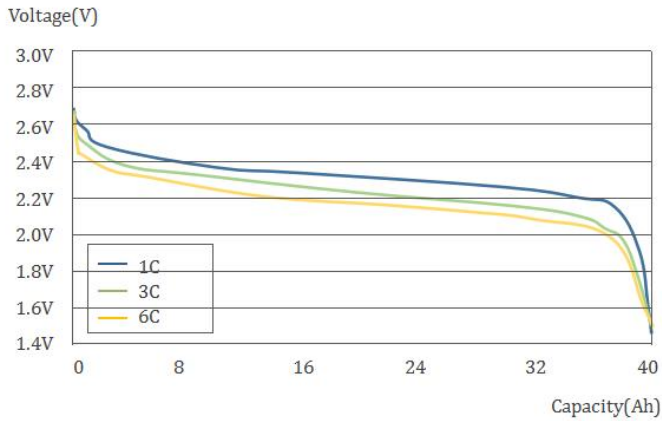
TRANSPORTATION SOLUTIONS

Hybrid, plug-in hybrid and electric vehicle battery systems for:

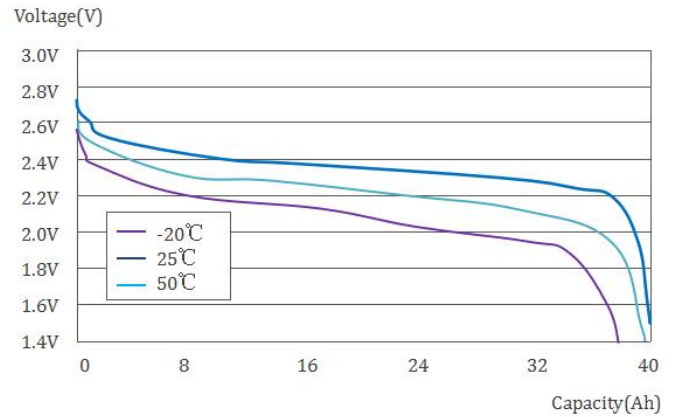
- + Commercial vehicles
- + Off-highway vehicles
- + Passenger vehicles

PERFORMANCE CHARACTERISTICS

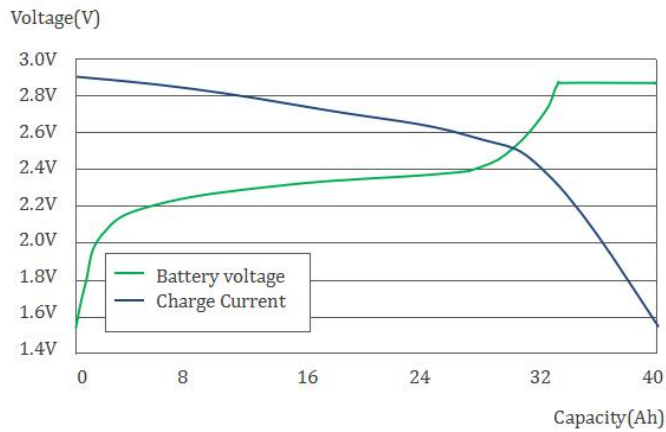
Constant Power Discharge Characteristics at 25° C



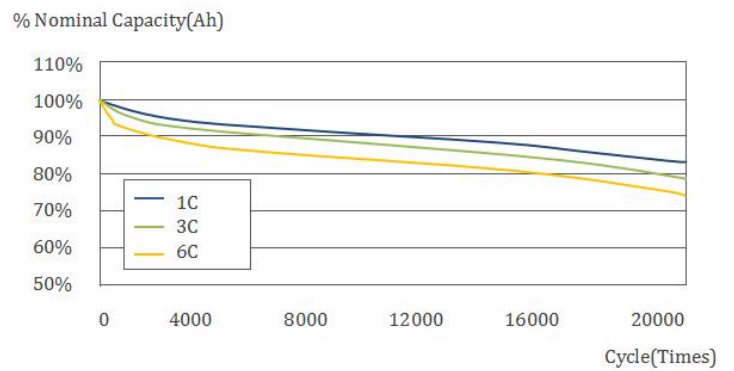
Constant Power Discharge Characteristics at 1C



Charging characteristic (1C @ 25° C)



Cycle Life Curves, 100% DOD, Various Discharge Rates



ELB

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