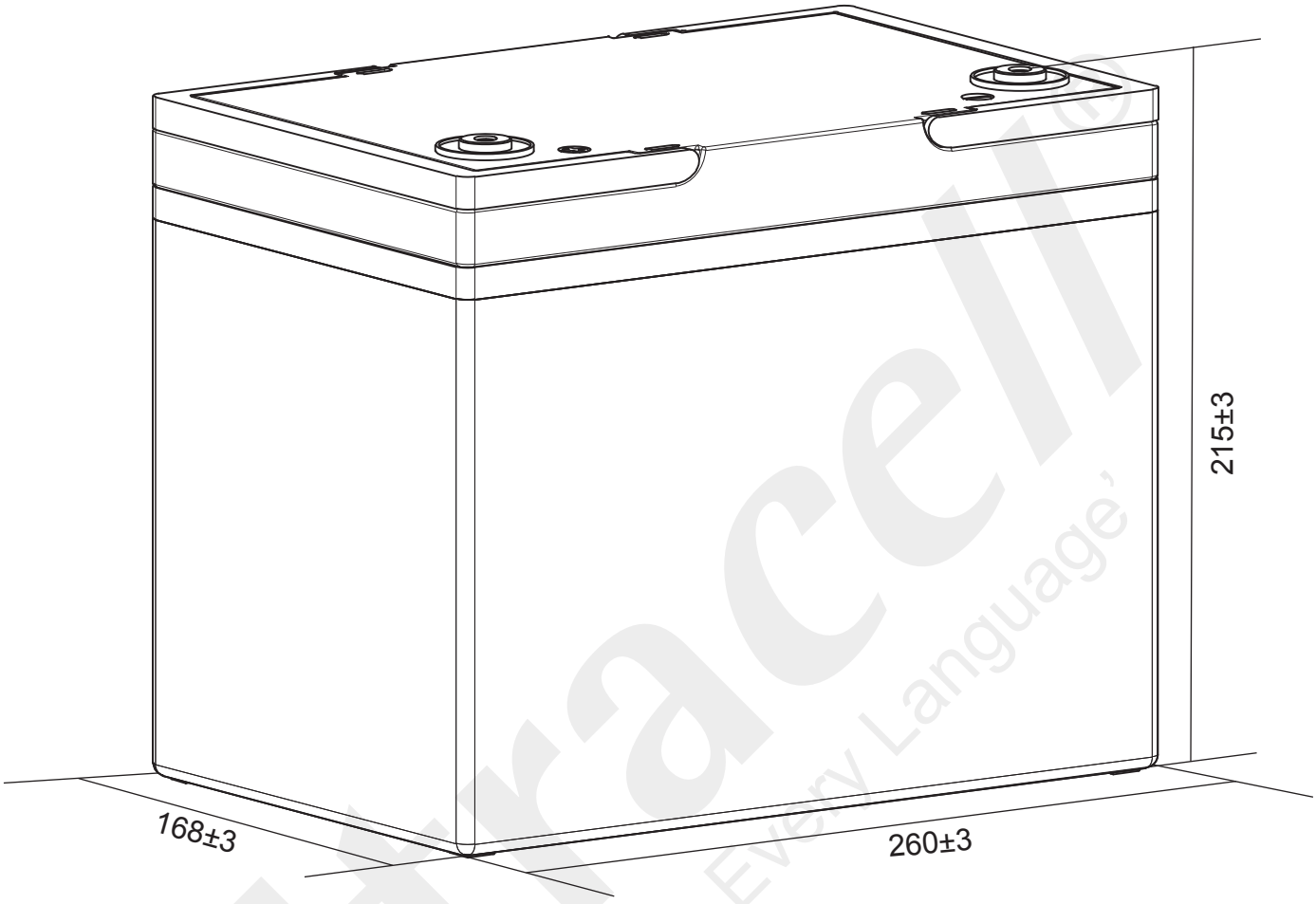
Ultracell®

'Quality in Every Language'

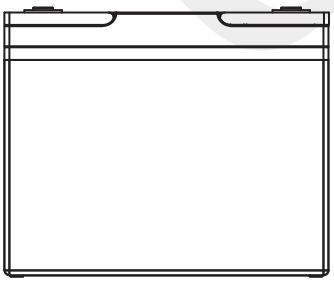
LIT50-24

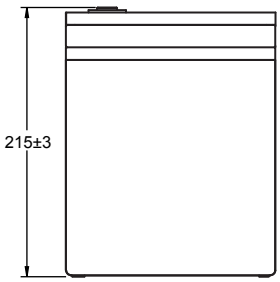
24V 50Ah/1280Wh

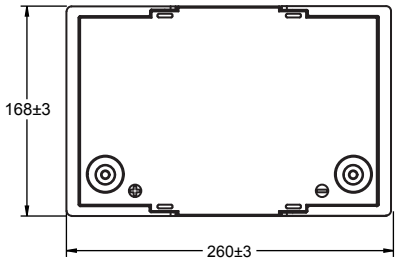
Lithium Series



Technical Dimensions (mm)







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www.ultracell.co.uk

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TechData

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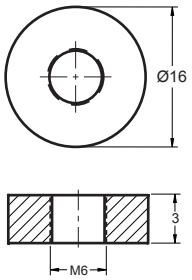
24V 50Ah/1280Wh
Lithium Series

Image

Terminal Dimensions (mm)

Standard
Terminal: F6



Technical Specification

Output	Nominal Voltage Nominal Capacity Energy	25.6V 50Ah @ 0.2C 1200Wh
Terminal Type	Standard Terminal	F6
Container Material	Standard Option Flame Retardant Option (FR) IP Class	ABS ABS (UL94:VO) IP65
Standard Charge	Charge Voltage Standard charge Rapid charge Max. Charge Current	29.2V/set 0.2C (CC) to 3.65V/cell, then 3.65V/cell (CV) 3.5h 1C (CC) to 3.65V/cell, then 3.65V/cell (CV) 3h 50A
Standard Discharge	Continuous Discharge Current Discharge Cut-off Voltage	50A 20V/set
Discharge Characteristics	Operating Temp Range	Charge: 0 ~ 45°C Discharge: -20 ~ 60°C Storage: -20 ~ 45°C
Efficiency of Charge	100% @0.5C	
Efficiency of Discharge	96~99% @0.5C	
Cycle Life	≥2000 cycles @ 1C 100%DOD	
Battery Management System	Complete with BMS unit measuring current, voltage, single cell surface temperature and the ambient temperature of the battery.	

Self Discharge

Ultracell® LIT batteries may be stored for up to 2 years at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

Transportation

Ultracell® LIT Batteries will be at 30% State of Charge when shipped in accordance to the applicable international and national government regulations. To prevent damage during transit, ensure packaging is safe and secure. Keep battery dry and away from direct sunlight. Suitable for all transportation vehicles.

VdS
MH 29410
EMC 1188-C
IEC 60896
IEC 62321
Qualitas Veritas
ISO 9001:2015

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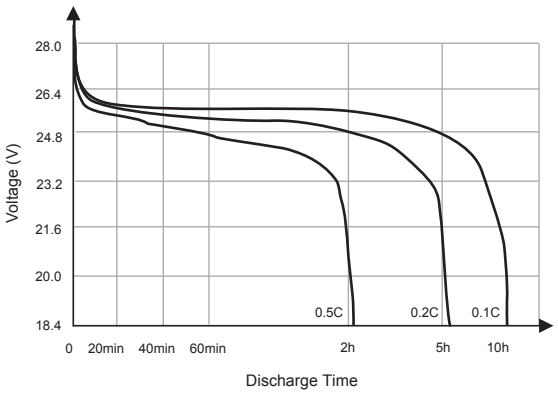
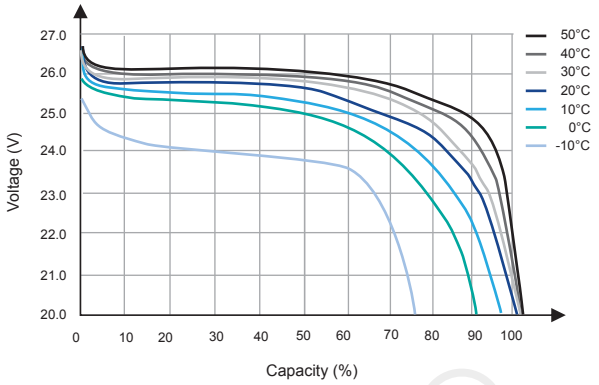
ISO 9001:2015

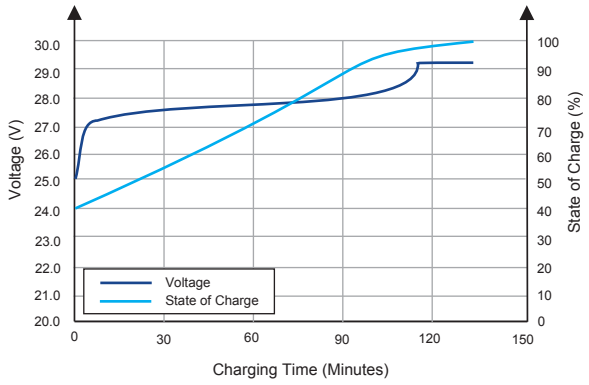
Different Rate Discharge Curve (25°C)



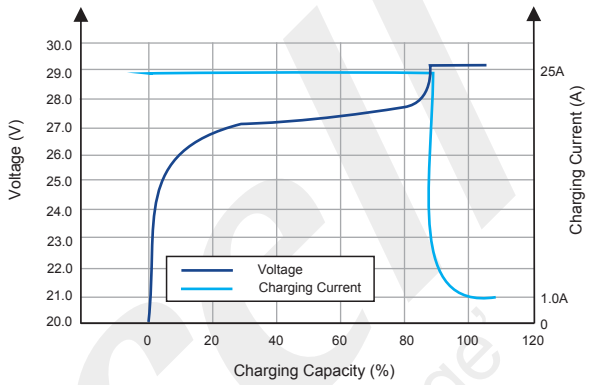
Different Temperature Discharge Curve (0.5C)



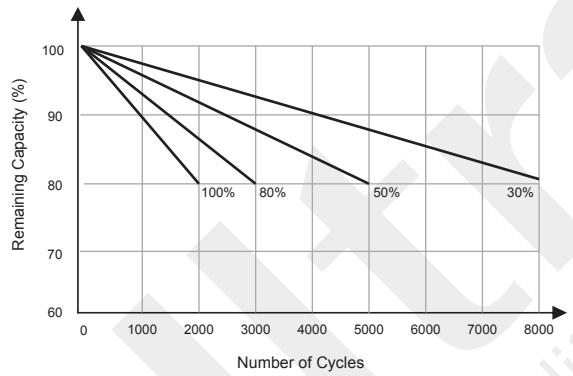
State of Charge Curve (0.5C, 25°C)



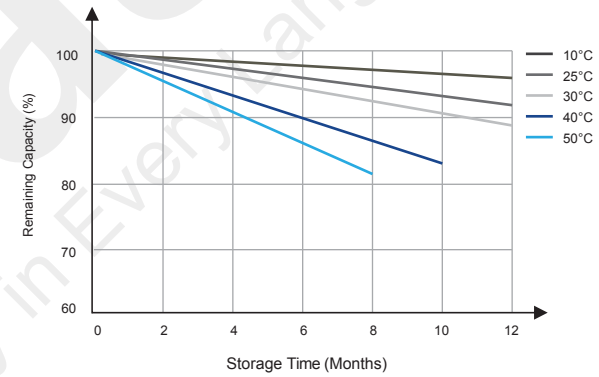
Charging Characteristics (0.5C, 25°C)



Cycle Life on D.O.D (25°C)



Temperature on Self Discharge Curve



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