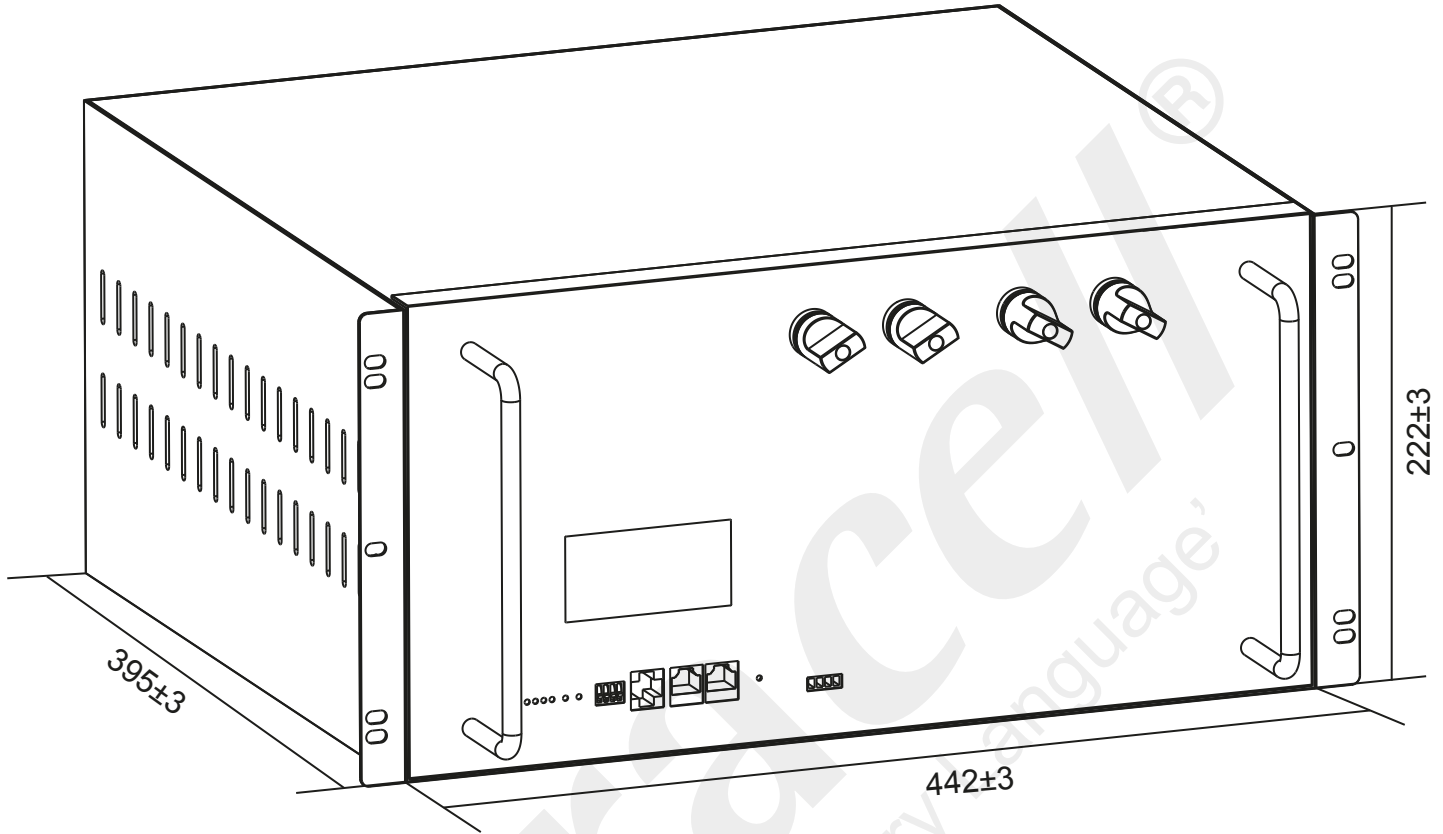


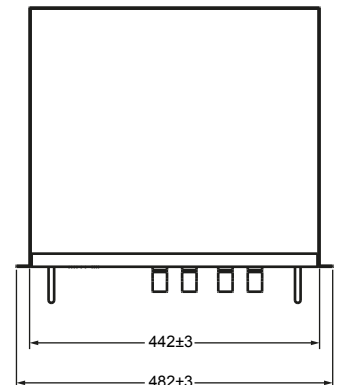
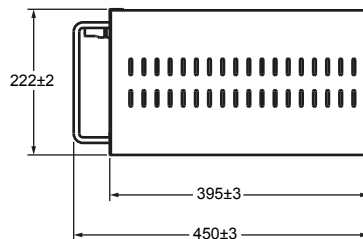
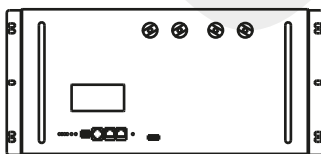
Ultracell®

'Quality in Every Language'

LIT100-48S
48V 100Ah/4800Wh
Lithium Series



Technical Dimensions (mm)



LIT100-48S (Without Display)



LIT100-48S (With Display)



*Optional LCD Display Screen Available.

Technical Specification

Output	Nominal Voltage	48V
	Nominal Capacity (5HR)	100Ah
	Energy	4800Wh
Container Material	Container Material	Black baked Lacquer Steel Case (rack / cabinet is optional)
	Flame Retardant Option (FR)	UL94:VO
	IP Class	IP30
Standard Charge	Charge Voltage	54V
	Max. Charge Current	100A
Standard Discharge	Max. Discharge Current	100A
	Discharge Cut-off Voltage	40.5V
Discharge Characteristics	Operating Temperature	Charging: 0 ~ 45°C
		Discharging: -20 ~ 60°C
		Storage: -20 ~ 60°C
Connections	Parallel connection is optional. (up to 16P) RS232, RS485	
Containing Cell	3.2V 50Ah	
Cycle Life	More than 3500 cycles at 100% DOD.	
Battery Management System	Complete with BMS unit measuring current, voltage, single cell surface temperature and the ambient temperature of the battery. It offers four remote functions which can communicate with a far-end central control center by computer management.	

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.

Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

A = Amperes W = Watts

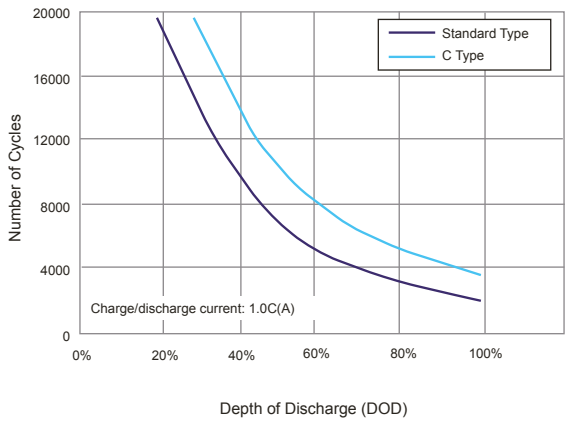
End of Discharge Voltage 40.5V	60 min	2 hours	3 hours	4 hours	5 hours	10 hours
A	95	49	33	25	20	10
W	4560	2400	1610	1210	970	486

LIT100-48S
48V 100Ah/4800Wh
Lithium Series

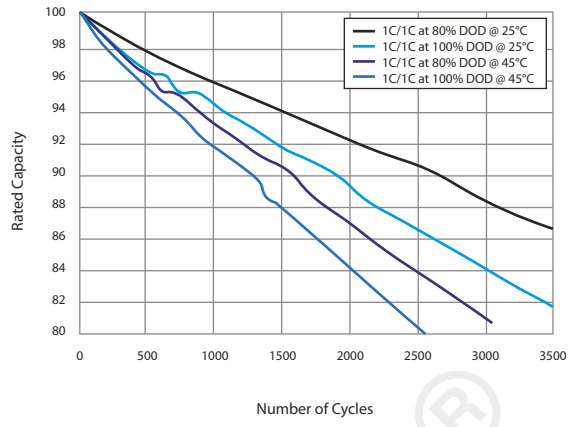




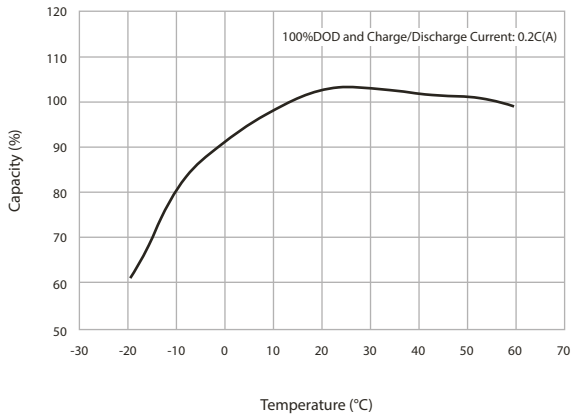
DOD in Relation to Cycle Life (25°C)



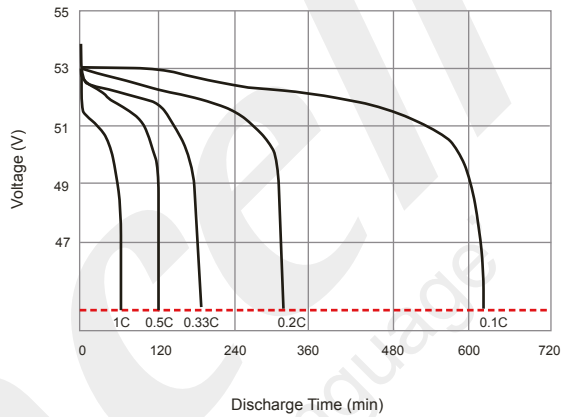
100% DOD Cycle Curves at Different Temperatures



Temperature Effect in Relation to Battery Capacity



Discharge Time in Relation to Discharge Rate (25°C)



Discharge Capacity in Relation to Discharge Rate

