LTC SERIES CARBON NANOTUBE BATTERY

Application: Electric vehicle,Electric wheelchair, Sightseeing, Cleaning equipment, E-bike, Mobility, Golf cart, AWP

LTC12-54

Voltage: 12
Capacity: 54Ah @20Hr
Material: ABS
Battery: VRLA AGM/ Non-Spillable / Maintenance-Free

SPECIFICATIONS

MODEL NAME	VOLTAGE (V)	DIMENSIONS INCHES (mm)				CAPACITY AMP-HOURS (Ah)		CAPACITY MINUTES			WEIGHT (KG)	TERMINAL TYPE
		Length	Width	Hegiht	Total Height	20-HR	5-HR	@75 AMPS	@56 AMPS	@25 AMPS		
LTC12-54	12	223	123	175	175	54	48	-	-	-	13.6	T12-A(M6)

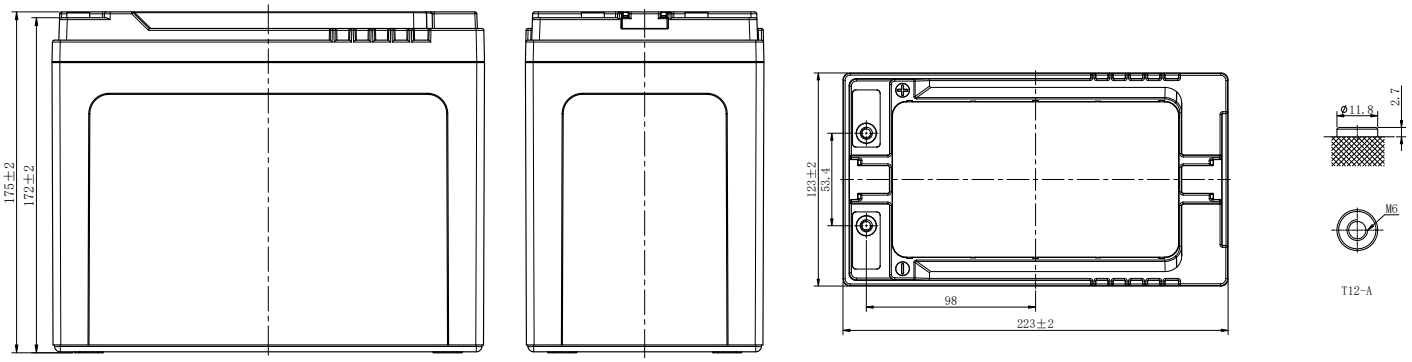
OPERATING TEMP. RANGE

Discharge	-20~55°C(-4~131°F)
Charge	0~40°C(32~104°F)
Storage	-15~40°C(5~104°F)

STANDARDS

CARBON NANTUBE

BATTERY DIMENSIONS



Note: Terminal Torque Valuesin-lb(Nm):34.52-47.79(3.9-5.4)

GENERAL FEATURES

Stable Initial Capacity
- PAM/NAM amount optimization
- 4BS crystal paste mixing & curing technology
- Double layer separator technology
- Improved design electrolyte S.G.

Improved PSoc Cycling
- Carbon nanotube reinforcement technology
- Mix carbon boost technology
- Targeting for higher level through carbon technology

Excellent Deep Cycle Performance
- Plate assembly pressure re-engineering
- New PAM/NAM recipe introduced
- Gel electrolyte technology
- New-type alloy
- Double layer separator technology

Less Water Loss
- PAM/NAM amount optimization
- New PAM/NAM recipe introduced
- New-type alloy

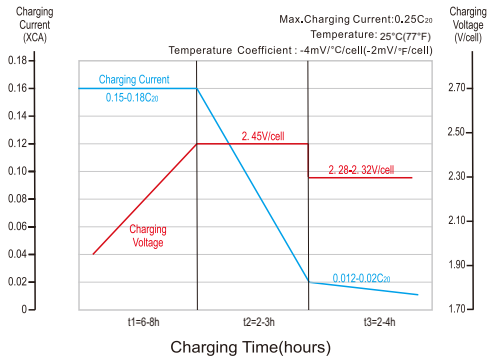
Delay PAM Softening and Shedding
- Plate assembly pressure re-engineering
- 4BS crystal paste mixing & curing technology
- Higher paste density

Fast Charging Capability
- Adding carbon nanotube materials
- Enhance charging efficiency
- Improve low-temperature discharge performance

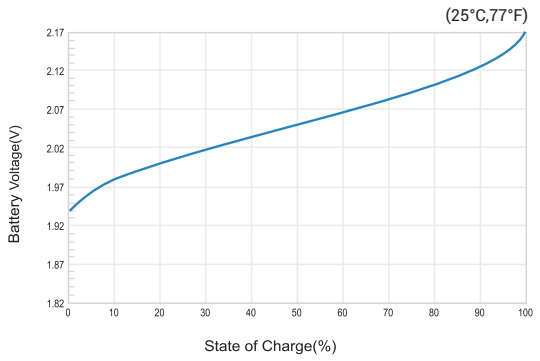
Solve NAM Sulfuration
- Carbon nanotube reinforcement technology

Optimize Electrolyte Stratification
- Introduce AGM-GEL technology

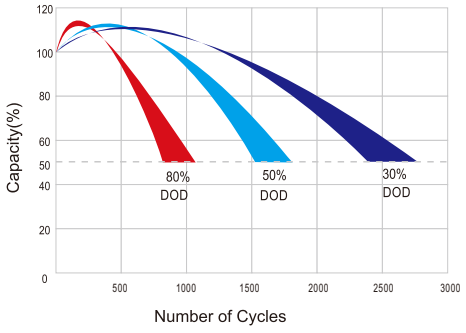
Charging Profiles



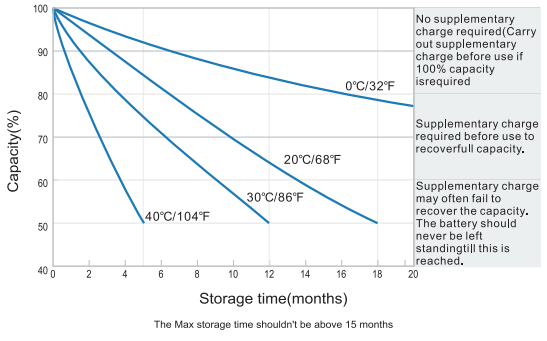
Relationship of OCV and State Of Charge



Cycle Life in Relation to Depth Of Discharges



Self-discharge Characteristics



OPERATING INSTRUCTIONS: PRECAUTIONS FOR CHARGING AND DISCHARGING

The charger should have charging temperature compensation function, with 25°C as the base point, for every 1°C increase in ambient temperature, the charging voltage will be adjusted down by 4mV/cell. For 1°C decrease in ambient temperature, the charging voltage will be adjusted up by 4mV/cell.

The protection voltage set for the battery unit is 1.75V/cell, when the power meter remind of low voltage or there is power failure during usage of the vehicle, do not use battery's rebound voltage continue driving the vehicle.

LEOCH BATTERY

Leoch International Technology Ltd. www.leoch.com

Leoch Batteries Pte Ltd www.leoch.sg

Leoch Battery Corporation www.leochamericas.com

Leoch Europe S.A. www.leoch.eu

Publication No.:
LB-LTC12-54-PD-EN-V1.1-20260203