

LTC SERIES CARBON NANOTUBE BATTERY

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

LTC12-40

Voltage: 12

Capacity: 40Ah @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	Height	Total Height	20-HR	5-HR	@75 AMPS	@56 AMPS	@25 AMPS		
LTC12-40	12	267.5	77.5	171	171	40	36	-	-	-	10.2	T15(M5)

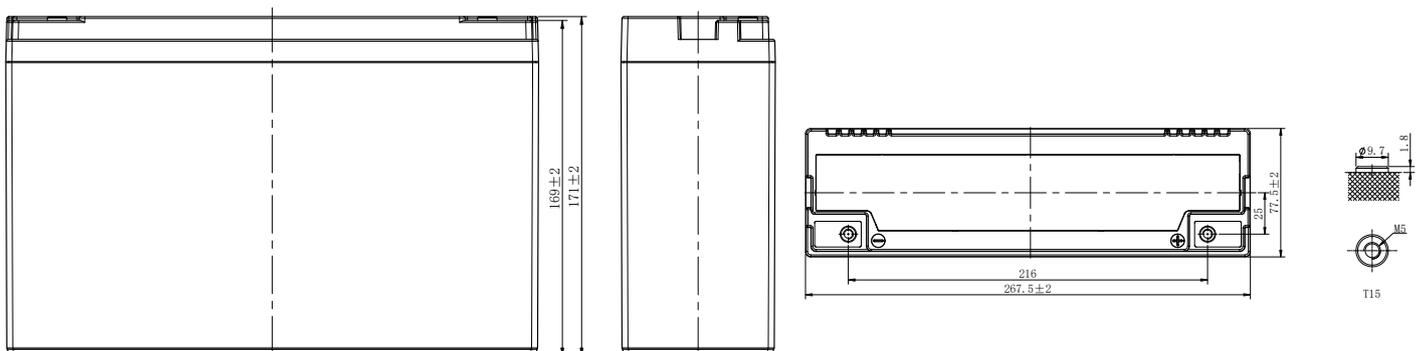
OPERATING TEMP. RANGE

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

STANDARDS



BATTERY DIMENSIONS



Note: Terminal Torque Values in-lb(Nm): 17.69-26.55(2.0-3.0)

GENERAL FEATURES

Stable Initial Capacity

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

Less Water Loss

- ▶ PAM/NAM amount optimization
- ▶ New PAM/NAM recipe introduced
- ▶ New-type alloy

Solve NAM Sulfuration

- ▶ Carbon nanotube reinforcement technology

Improved PSoc Cycling

- ▶ Carbon nanotube reinforcement technology
- ▶ Mix carbon boost technology
- ▶ Targeting for higher level through carbon technology

Delay PAM Softening and Shedding

- ▶ Plate assembly pressure re-engineering
- ▶ 4BS crystal paste mixing & curing technology
- ▶ Higher paste density

Optimize Electrolyte Stratification

- ▶ Introduce AGM-GEL technology

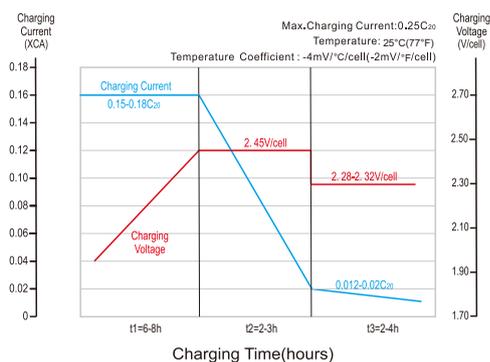
Excellent Deep Cycle Performance

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

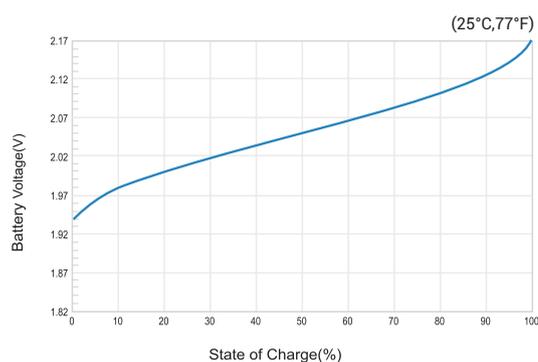
Fast Charging Capability

- ▶ Adding carbon nanotube materials
- ▶ Enhance charging efficiency
- ▶ Improve low-temperature discharge performance

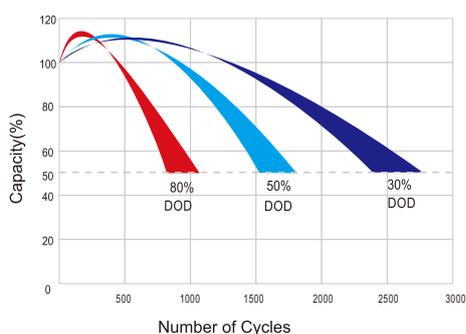
Charging Profiles



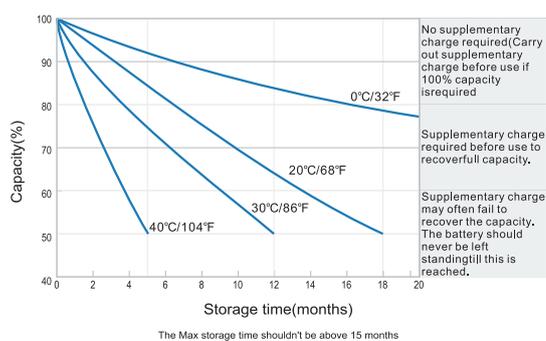
Relationship of OCV and State Of Charge



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.



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