

Afri-Stream40 12M

Lithium Titanate Oxide Battery



Product Data Sheet

Battery Overview

This heavy duty, high capacity battery is designed to produce maximum capacity whilst still being extremely durable to withstand the robust environments within which these batteries will be utilized.

They can handle all the bumps and knocks that they will be exposed to, tested to withstand forces in excess of 50G without damage. The battery enclosure is also fire retardant for up to 30 minutes. The quick charge capability ensures minimal downtime, if any, at maximum availability (100%) to the client to ensure optimal productivity.

The batteries operating temperatures ensures availability in any environment, accommodating extreme negative and positive temperatures as shown in the data sheet.

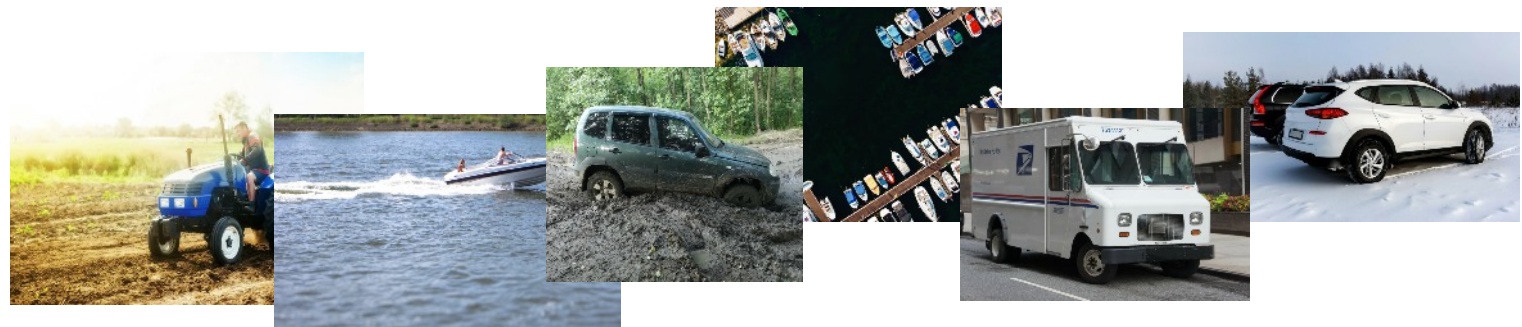


Main Features

- Available in 12V 40Ah
- Long cycling performance
- High Safety
- Fast charge
- Long cycle life – 20 000-30 000
- Wide temperature range
- Battery Management
- Integrated Wi-Fi Coms system - Optional
- Fire-retardant enclosure
- Excellent vibration resistance

Suitable For

- Light Delivery Vehicles
- Sport Utility Vehicles (SUVs)
- Light Construction Plant and Equipment
- Small yachts
- Light Lawn / Agriculture Equipment



Battery Specifications		Afri-Stream40 12M
Battery Modules		LTO-40AH
Chemical Technology		Lithium Titanate Oxide
Chemical Composition		Li ₂ TiO ₃
Nominal Battery Capacity		40 Ah
Nominal Cold Crank Amperage		400 A
Nominal Battery Voltage		13.8VDC
Working Efficiency		0.94
Charge current		Standard Charging / Discharging: 0.5C (20 A)
Standard Charging method		CCCV
Charging time		Standard Charge at 20A (0.5C): 2 hours Fast Charge at 200A (5C): 15 Minutes Rapid Charge at 400A (10C) < 10 Minutes
Charging (CC-CV)	Maximum Charge Current	10C
	Charge Upper Voltage Limit	16.8V
Discharge	Maximum Discharge Current	10C
	Charge Lower Voltage Limit	10.8V
Charging Time	Standard Charging	0.5H
	Quick Charging	0.2H
Operational Thermal Ambient	Charging	-40°C ~ 65°C
	Discharging	-40°C ~ 65°C
Storage Thermal Ambient	Short-Term (1 Month)	-40°C ~ 65°C
	Long-Term (Within 1 Year)	-40°C ~ 65°C
Storage Humidity		<70%
Battery Terminals		Positive: 17.5mm Top
		Negative: 15.9mm Top
Battery Weight		17Kg
Battery Dimension		204x286x238mm
Cycle Life		> 25 000 times
Communication (Optional)		Performance data via Wi-Fi / Sigfox

