

Afri-Stream55 24M

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 24V 55Ah
- Long cycling performance
- High Safety
- Fast charge
- Long cycle life – 20,000 – 30,000
- Wide temperature range
- Battery Management
- Integrated Wi-Fi Coms system
- Fire-retardant enclosure
- Excellent vibration resistance

Suitable For

- Heavy Duty Commercial Vehicles
- Construction Plant and Equipment
- Heavy Defense and First Response Vehicles
- Agriculture and Mining Plant & Equipment
- Large Cranes, Forklifts



Battery Specifications		Afri-Stream55 24M
Battery Modules		LTO-55AH
Chemical Technology		Lithium Titanate Oxide
Chemical Composition		Li ₂ TiO ₃
Nominal Battery Capacity		55 Ah
Nominal Cold Crank Amperage		550 A
Nominal Battery Voltage		25.3VDC
Working Efficiency		0.94
Charge current		Standard Charging / Discharging: 0.5C (27.5 A)
Standard Charging method		CCCV
Charging time		Standard Charge at 27.5A (0.5C): 2 hours Fast Charge at 275A (5C): 15 Minutes Rapid Charge at 5500A (10C) > 10 Minutes
Charging (CC-CV)	Maximum Charge Current	10C
	Charge Upper Voltage Limit	30.8V
Discharge	Maximum Discharge Current	10C
	Charge Lower Voltage Limit	16.5V
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		29Kg
Battery Dimension		230.8x298x334mm
Cycle Life		> 25 000 times
Communication (Can be removed for Defense Applications)		Integrated USB Port / Wi-Fi / Sigfox

