

# Afri-Stream55 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.



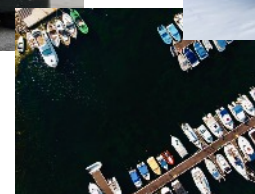
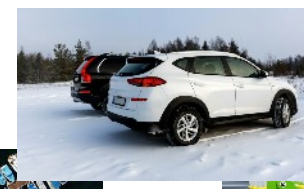
### Main Features

- Available in 12V 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

Requiring more current than a 40Ah battery

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



Battery Specifications		Afri-Stream55 12M
Battery Modules		LTO-55AH
Chemical Technology		Lithium Titanate Oxide
Chemical Composition		Li <sub>2</sub> TiO <sub>3</sub>
Nominal Battery Capacity		55 Ah
Nominal Cold Crank Amperage		550 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 225A (5C): 15 Minutes Rapid Charge at 5000A (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		27Kg
Battery Dimension		230.8x298x334mm
Cycle Life		> 25 000 times
Communication (Can be removed for Defense Applications)		Integrated USB Port / Wi-Fi / Sigfox

