

# Afri-Stream55 Mega 48



## Lithium Titanate Oxide Battery

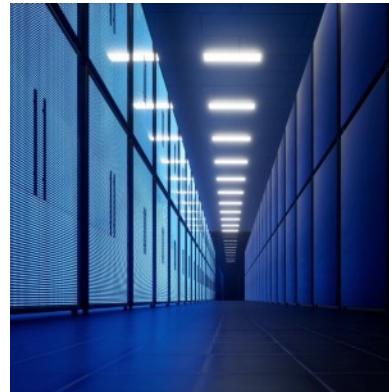
## Product Data Sheet

### 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.



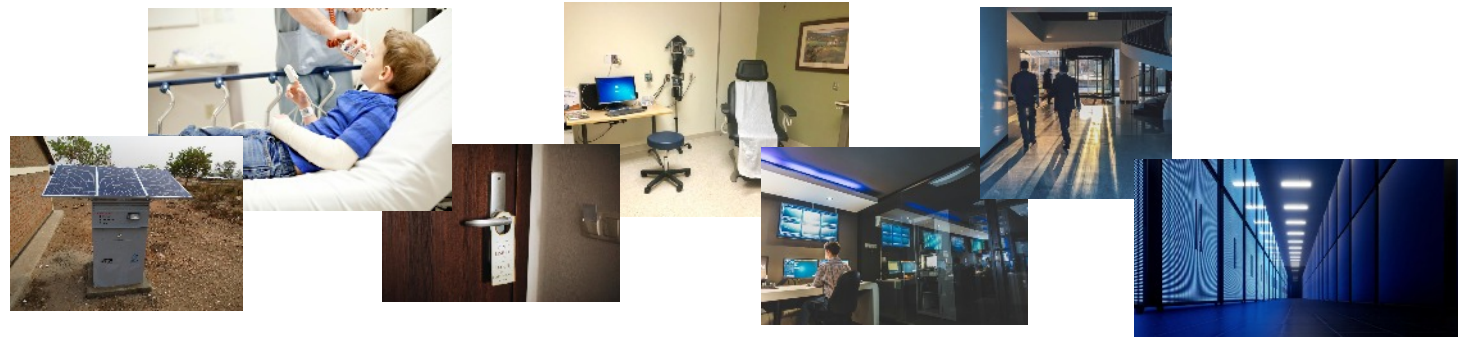
### Main Features

- Available in 48V 55Ah
- Long cycling performance
- High Safety
- Fast charge
- Long cycle life – 20 000-30 000
- Wide temperature range
- Active Cell balancing
- 48V configuration
- 6U 19" Rack enclosure
- Integrated CAN-Bus system
- LCD display for Charge State

### Suitable For

Suitable for rackmount applications such as:

- Solar installations
- Data Center installations
- Standby Power
- UPS
- Back-up Energy Storage



Battery Specifications		Afri-Stream55 Mega 48
Battery Modules		LTO-55AH
Chemical Technology		Lithium Titanate Oxide
Chemical Composition		$\text{Li}_2\text{TiO}_3$
Nominal Battery Capacity		55 Ah
Nominal Battery Voltage		48VDC
Working Efficiency		0.94
Charge current		Standard Charging / Discharging: 0.5C (275 A)
Standard Charging method		CCCV
Charging time		Standard Charge: 18 Minutes Rapid Charge: 12 Minutes
Charging (CC-CV)	Maximum Charge Current	10C
	Charge Upper Voltage Limit	58.8V
Discharge	Maximum Discharge Current	10C
	Charge Lower Voltage Limit	31.5V
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		Two Anderson Connectors
Communications Ports		Can-Bus, Ethernet
Display		LCD Display for charge level indication
Battery Weight		42.8Kg
Battery Dimension		267x360x436mm
Cycle Life		> 25 000 times

