

# Afri-Stream55 Solar



## 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.

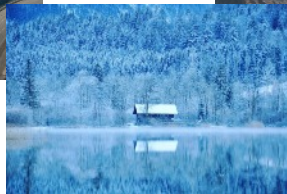
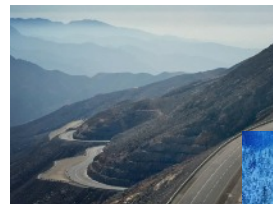


### Main Features

- Available in 24V 55Ah
- Onboard CAN-Bus system to communicate with inverters
- Long cycling performance
- High Safety
- Fast charge
- Long cycle life – 20 000-30 000
- Wide temperature range
- Battery Management
- Fire-retardant enclosure

### Suitable For

- Suitable for Solar systems in any harsh environment
- Surface and underground mining applications



Battery Specifications		Afri-Stream55 Solar
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		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 550A (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	16.5.5V
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		M12 Threaded
Terminal Maximum Torque rating		14Nm
Battery Weight		34Kg
Battery Dimension		230.8x298x334mm
Cycle Life		> 25 000 times

