

# ELIOS | Altilium EA12-220





12V 220Ah Sealed Rechargeable Lead Acid AGM Battery

Data Sheet



The Elios 12V-220Ah AGM Battery is a durable, maintenance-free power solution designed to perform reliably in Canada's diverse environmental conditions. Ideal for solar systems, UPS backup, and portable power applications, it features a sealed, leak-proof design and supports a high discharge rate for consistent output. Commonly used in electric tools, lawn mowers, golf carts, mobility equipment, fire alarms, lighting systems, medical devices, and electric toys, the Elios 12V-220Ah AGM battery offers a dependable, cost-effective energy source for residential, commercial, and recreational needs.

## Features & Benefits

-  Delivers a consistent 12V 220Ah output with long-lasting, reliable performance over time.
-  Engineered to be discharged and recharged repeatedly without causing damage.
-  Maintenance-free, leak-proof, and resistant to vibration for dependable performance.
-  Retains charge for 6+ months at 25°C, ensuring long storage capability.

## Certifications

ISO 9001 | NGV | CE

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## SPECIFICATIONS

Voltage Per Unit	12V
Capacity	220Ah@10hr-rate to 1.80V per cell@25°C
Dimension ( L x W x H)	20.55 x 9.37 x 8.58 in (522 ± 2 x 238 ± 2 x 218 ± 2 mm)
Weight	60kg (132.3lbs)
Max. Discharge Current	1200A (5sec)
Internal Resistance	Approx 2.8mΩ
Operating Temperature Range	Discharge: -40°C~50°C
	Charge: -20°C~50°C
	Storage: -20°C~50°C
Normal Operating Temperature Range	25°C±5°C
Bulk/Absorb	14.70VDC @ 25°C
Float Voltage	13.50 to 13.80VDC/unit Average at 25°C
Equalize*	14.70 to 15.00VDC/unit Average at 25°C
Max. Charging Current	50.0A
Self Discharge	The batteries can be stored for more than 6 months at 25°C.
Terminal	T9 / T14
Container Material	ABS(UL94-HB)

## CHARGING PROCEDURES

Application	Charge Voltage (V/cell)			Max. charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C	2.475	2.45~2.50	0.25C
Standby Use	25°C	2.275	2.25~2.30	

## CHARGING METHOD

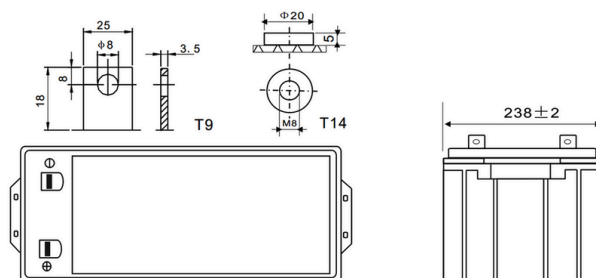
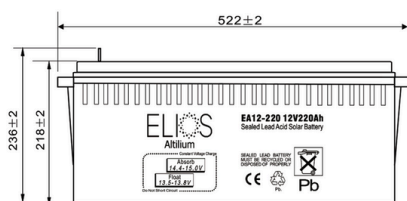
Constant Voltage	14.7~15.0V, 5~11h Max. Current 0.25CA
Constant Current	0.1CA×5h
Fast	0.25CA×1.7h

## Applications

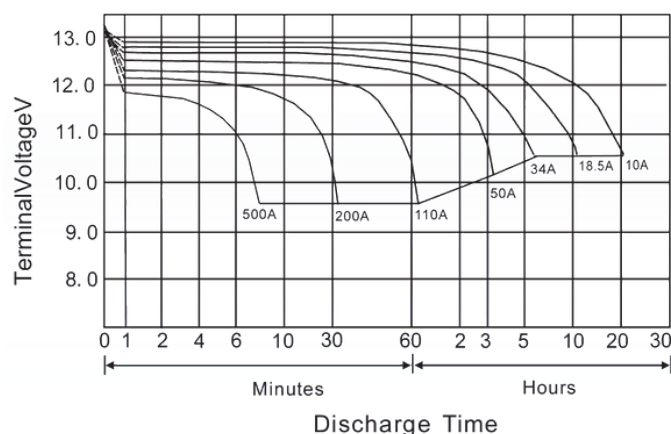
- Solar System
- UPS
- Golf Cart
- Light Tower
- Portable Equipment Vehicle
- Auxiliary Power
- Security

## Dimensions

Unit: mm



## Discharge Time vs. Discharge Current



## Warranty

- 2-year limited warranty

\*to be performed by a trained technician only.

\*\*Charge the batteries at least once every 6 months, if they are stored at 25 °C.