

# VMAX XTR31-135 Battery Datasheet

## General

Model	XTR31-135
BCI Group Size	31
Battery Type	AGM Dual Purpose (Starting + Deep Cycle)
Voltage	12V
Capacity	135Ah @ 20hr rate
Reserve Capacity (RC)	265 minutes @ 25A
Marine Cranking Amps (MCA)	1500
Max Discharge Current	1000A (5 seconds)
Service Life (Float Mode)	10–12 years
Cycle Life (Approx.)	~300 @ 100% DOD; ~600 @ 75% DOD; ~1000 @ 50% DOD; ~2600 @ 25% DOD; 3500+ @ 10% DOD
Self-Discharge Rate	1–2% per month @ room temperature

## Discharge Ratings

25A @ 1.75V/Cell	265 minutes
75A @ 1.75V/Cell	75 minutes

## Physical

Dimensions	12.9"W x 6.77"D x 8.66"H / 9.84"H**
Weight	78 lbs
Case Material	Heavy-duty ABS (vibration & impact resistant)
Terminal Type	SAE + 5/16" Stud (nuts and washers included)
Polarity	(+ on L.H.S. & - on R.H.S)

## Electrical

Short Circuit Current	2500A
Internal Resistance	3.2 mΩ

## Charging Parameters

Bulk/Absorb Voltage	14.4V–14.9V
Float Voltage	13.2V–13.8V
Recommended Charger Current	13–20A (10–15% of 20hr Ah rating)
Charger Type	AGM-compatible multi-stage smart charger

## Certifications & Safety

Spill-Proof & Leak-Proof	Sealed, maintenance-free construction
Non-Hazardous Classification	Suitable for air, sea, and ground transport
Shock & Vibration Resistant	Designed for marine, off-road, and industrial use

## Recommended Charging Options

AC Chargers	Any quality AGM smart/microprocessor-controlled charger with specs above
Vehicle Alternator	14V–15V
RV Converter	14V–15V
Solar Panel	175W–450W
Wind Turbine	175W–450W
Charge Controller	15A+
*Warning	Do not use a charger with smaller amperage than recommended. Maintainers should ONLY be used to maintain a fully charged battery, never as a charger.

## Operating Temperature Range

Discharge	-4~140°F
Charge	32~120°F
Storage	-4~140°F

## Temperature Compensation

Cycle use	-30mV/°C
Standby use	-20mV/°C

## UPC

UPC	030955763507
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