

EV1920S - PRODUCT DATA SHEET

Marine & Leisure Li-ion Battery 12.8 V – 150 Ah – 1920 Wh BLUETOOTH AND INTEGRATED HEATER

Electrical specifications

Nominal voltage	12.8 V
Nominal capacity	150 Ah
Rated energy	1920 Wh
Internal resistance	<30 mΩ @ 50% SOC
Cycle life* (80% DoD)	>4000 cycles
Cycle life* (100% DoD)	>2000 cycles
Parallel connection	Yes, up to 4 units
Serial connection	Yes, up to 2 units

* Standard charge @25°C

Discharge specifications

Application	Equipment
Max discharge (continuous)	150 A (1 C)
Peak Discharge	800 A @ 5s
Discharge temperature range	-20 °C to 60 °C

Charge specifications

Charge voltage range	13.6 – 14.6 V
Max charge voltage	14.6 V
Float voltage	13.8 V
Max charge current	100 A
Charge temperature range	-20 °C to 45 °C

Standard charge (recommended)

Charge method	CC-CV
Charge current	45 A (0.3 C)
Charge voltage	14.6 V
Cut-off current	7.5 A (0.05 C)

Mechanical specifications

Dimensions (LxWxH)	355x176x190 mm
Weight	15.5 kg
Terminal type	EN Taper
Polarity	ETN0
IP rating	IP54
Cell chemistry	LiFePO4

Storage specifications

Ideal long term storage temp.	15 °C to 35 °C
Short term storage temp.	-20 °C to 50 °C
Self discharge	<10% per month
Self discharge in sleep mode	<3% per month

Battery monitor functions (mobile app)

Battery status and alarms	YES
State of charge (SOC)	YES
Battery voltage	YES
Charge / discharge current	YES
Estimated recharge time	YES
Battery temperature	YES
State of health (SOH)	YES
Cycle counter	YES

BMS self protection

Over charge voltage	YES
Over charge current	YES
Over discharge voltage	YES
Over discharge current	YES
Over discharge current (peak)	YES
Short circuit protection	YES
Over / under temperature	YES
Automatic cell balancing	YES
Automatic pre-charge heating <0 °C	YES

Note: Refer to User Guide for full detailed specifications

IP54 Bluetooth™ UN38.3 UK CA CE



Exide Li-Ion Battery Monitor

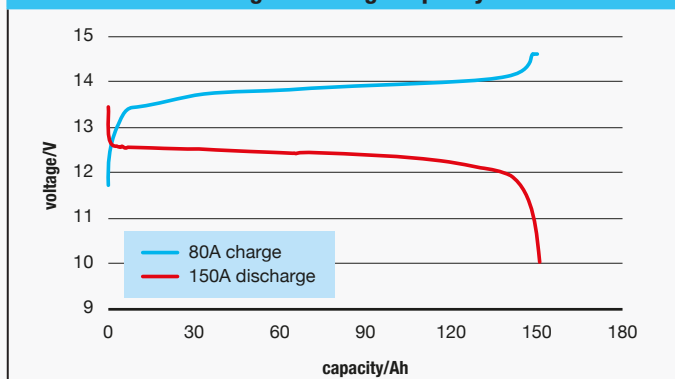
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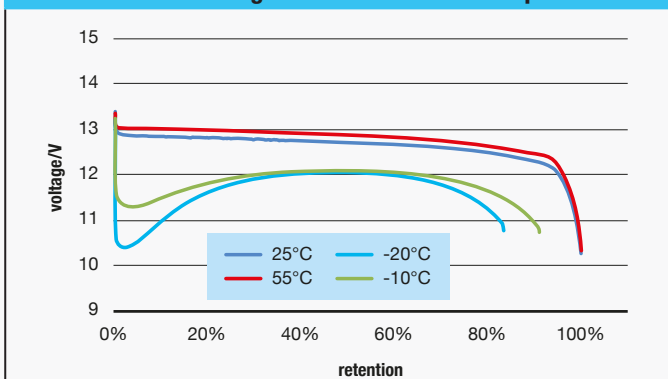
EV1920S Marine & Leisure Li-ion Battery 12.8 V – 150 Ah – 1920 Wh

BLUETOOTH AND INTEGRATED HEATER and sleep mode

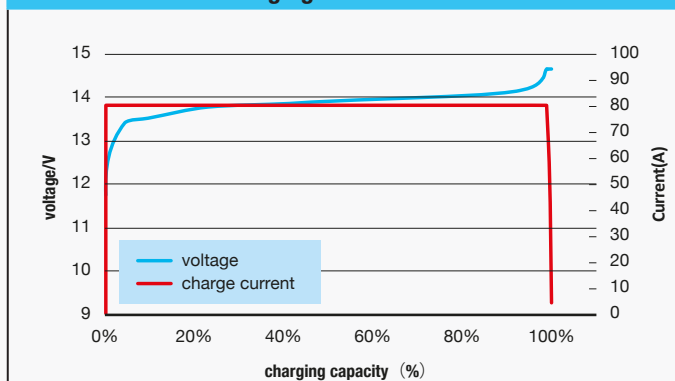
12V150Ah Charge-discharge capacity curve@RT



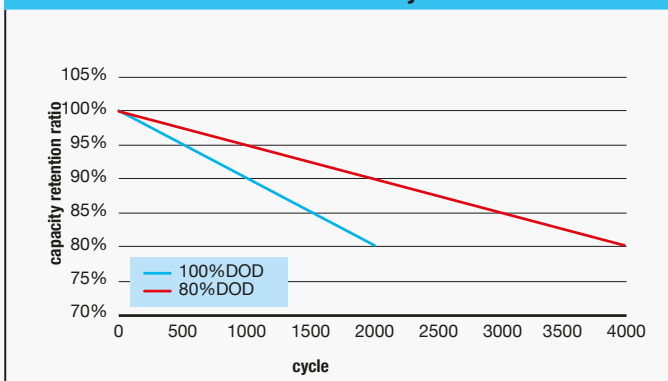
12V150Ah Discharge curves at different temperatures



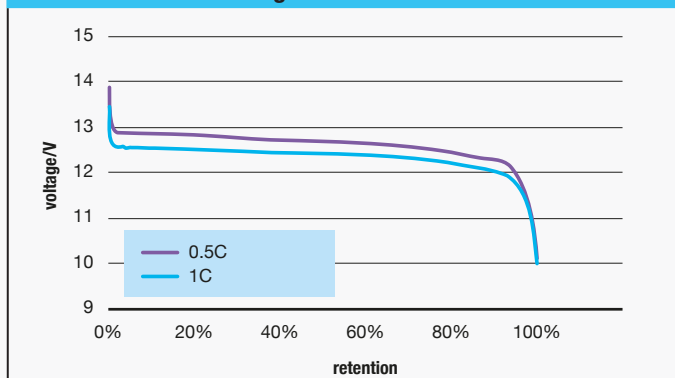
12V150Ah charging characteristics 80A @RT



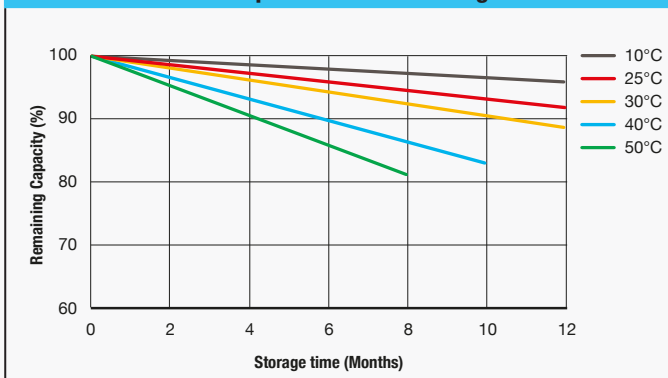
12V150Ah different DOD 0.5C cycle life curve@RT



12V150Ah Discharge curves at different rates@RT



Different temperature self discharge curve



UN38.3 ^{UK}CA ^{CE}



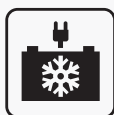
ULTRA LIGHT WEIGHT



EXTREME CYCLE LIFE



FAST RECHARGE



COLD WEATHER RECHARGE



READY TO USE



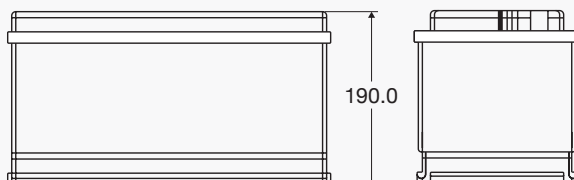
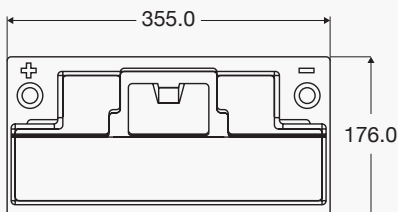
MAINTENANCE FREE



SOLAR PANEL CHARGE



SLEEP MODE



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