

EV640 - PRODUCT DATA SHEET

Marine & Leisure Li-ion Battery 12.8 V – 50 Ah – 640 Wh BLUETOOTH AND INTEGRATED HEATER

Electrical specifications

Nominal voltage	12.8 V
Nominal capacity	50 Ah
Rated energy	640 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)	50 A (1 C)
Peak Discharge	170 A @ 2s
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	50 A
Charge temperature range	-20 °C to 45 °C

Standard charge (recommended)

Charge method	CC-CV
Charge current	15 A (0.3 C)
Charge voltage	14.6 V
Cut-off current	2.5 A (0.05 C)

Mechanical specifications

Dimensions (LxWxH)	308x168x211 mm
Weight	8.5 kg
Terminal type	F-M8
Polarity	ETN1
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	15 % per year

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



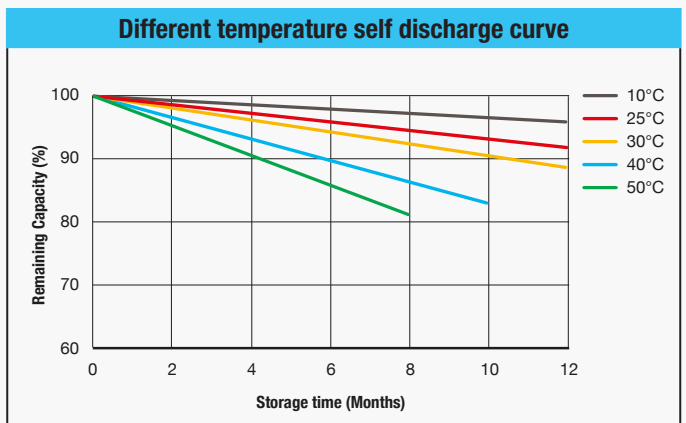
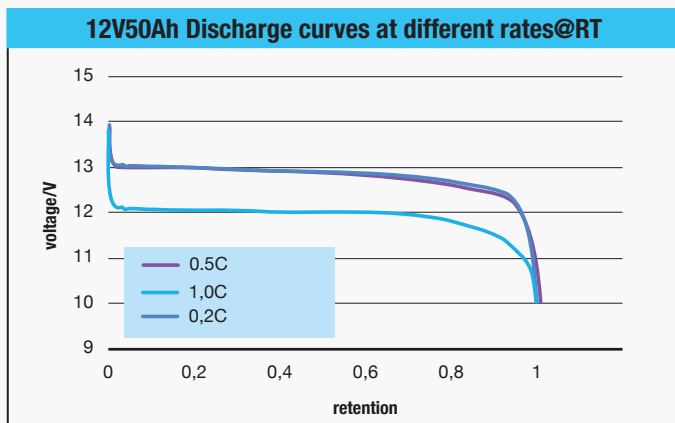
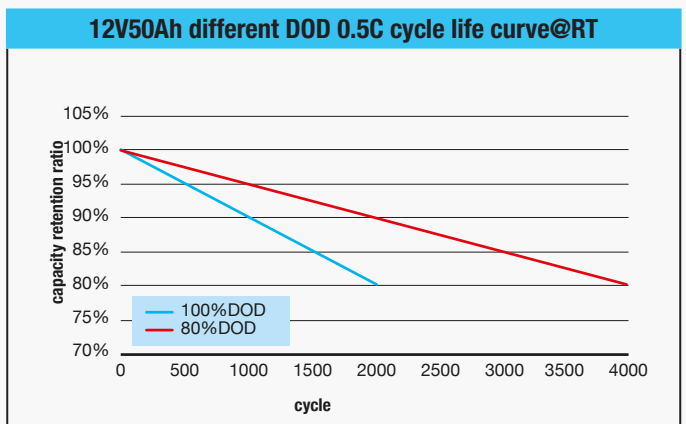
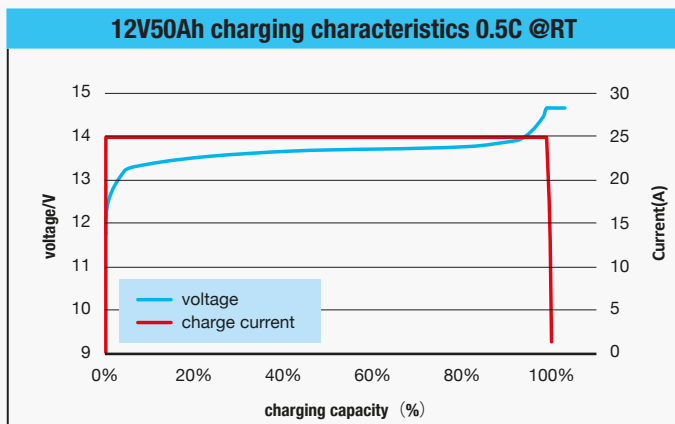
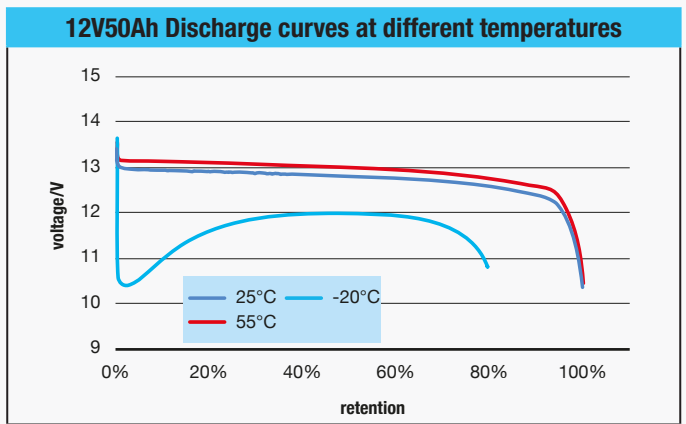
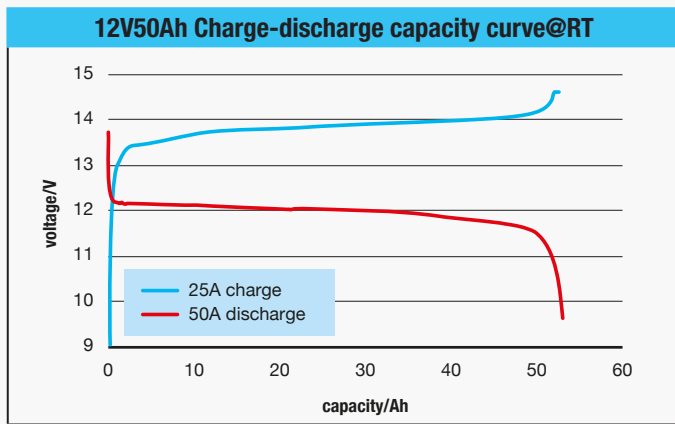
Exide Li-Ion Battery Monitor

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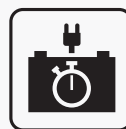
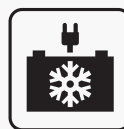


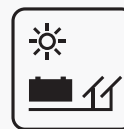
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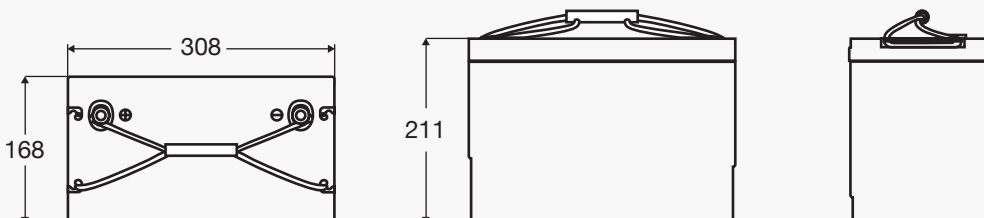
EV640 Marine & Leisure Li-ion Battery 12.8 V – 100 Ah – 1300 Wh

BLUETOOTH AND INTEGRATED HEATER



UN38.3 **UK** **CA** **CE**

- 
ULTRA LIGHT WEIGHT
- 
EXTREME CYCLE LIFE
- 
FAST RECHARGE
- 
COLD WEATHER RECHARGE
- 
READY TO USE
- 
MAINTENANCE FREE
- 
SOLAR PANEL CHARGE



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