

EV3800S-36 - PRODUCT DATA SHEET

Marine & Leisure Li-ion Battery 38.4 V – 100 Ah – 3800 Wh

BLUETOOTH AND INTEGRATED HEATER

Electrical specifications

Nominal voltage	38.4 V
Nominal capacity	100 Ah
Rated energy	3800 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	No

* Standard charge @25°

Discharge specifications

Application	Equipment
Max discharge (continuous)	50 A (0.5 C)
Peak Discharge	350 A @ 2s
Discharge temperature range	-20 °C to 60 °C

Charge specifications

Charge voltage range	41.2 – 43.8 V
Max charge voltage	43.8 V
Float voltage	41.4 V
Max charge current	50 A
Charge temperature range	0 °C to 45 °C

Standard charge (recommended)

Charge method	CC-CV
Charge current	30 A (0.3 C)
Charge voltage	43.8 V
Cut-off current	5 A (0.05 C)

Mechanical specifications

Dimensions (LxWxH)	520x269x221 mm
Weight	39.0 kg
Terminal type	F-M8
Polarity	ETN4
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	NO

Note: Refer to User Guide for full detailed specifications

IP54 Bluetooth UN38.3 UK CA CE



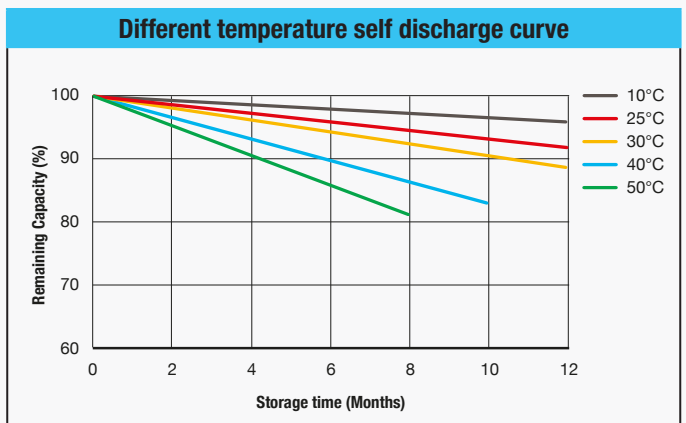
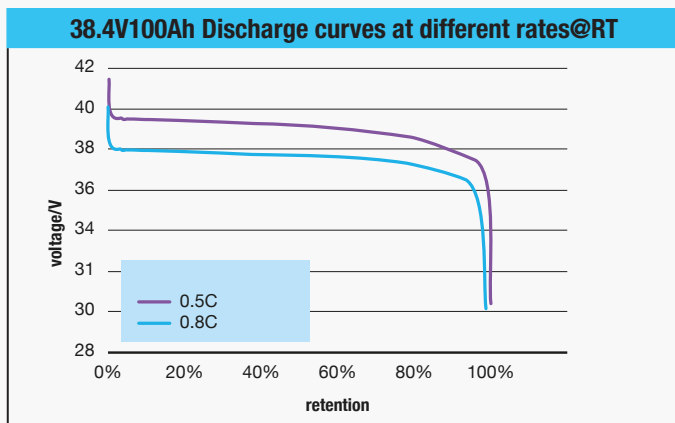
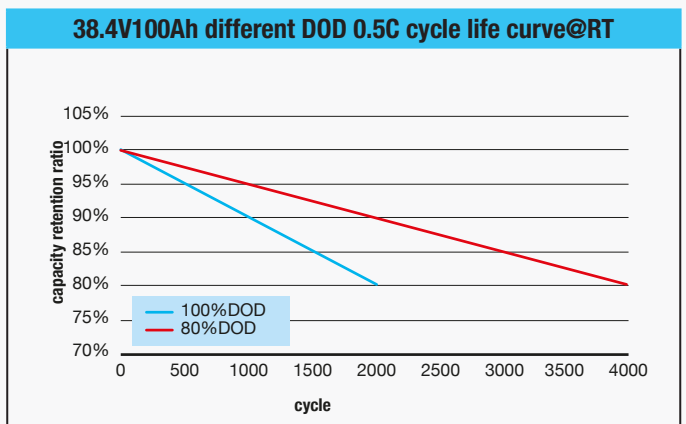
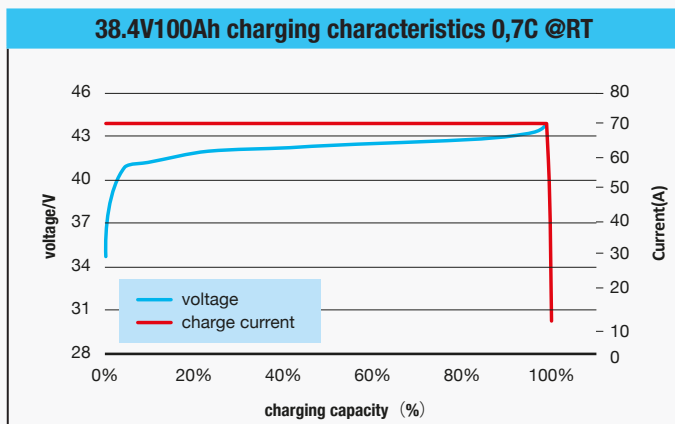
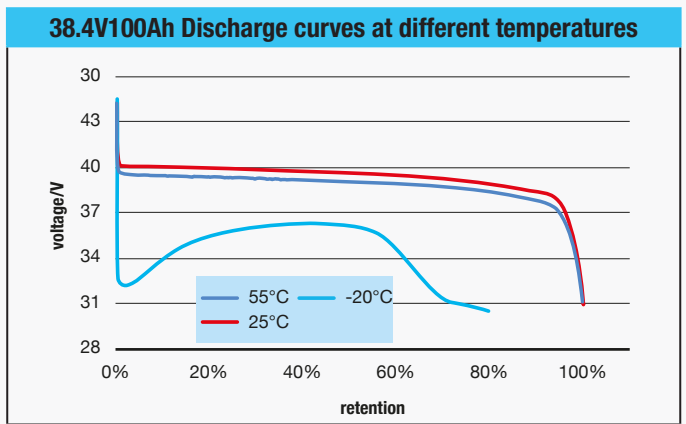
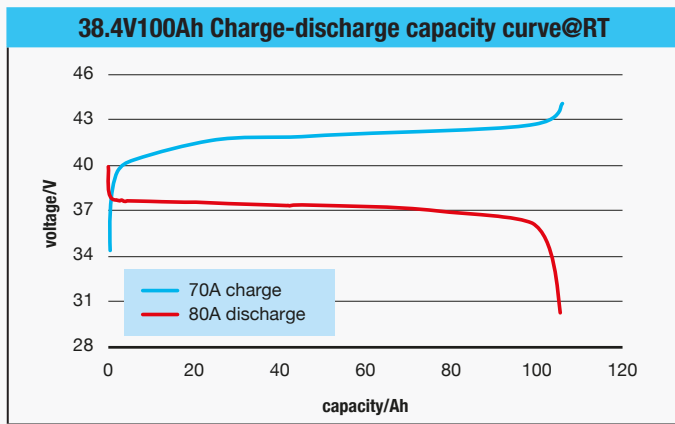
Exide Li-Ion Battery Monitor

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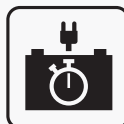
UN38.3  



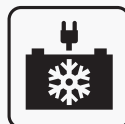
ULTRA LIGHT WEIGHT



EXTREME CYCLE LIFE



FAST RECHARGE



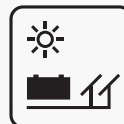
COLD WEATHER RECHARGE



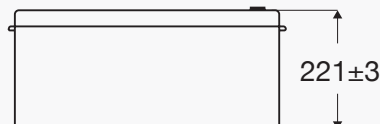
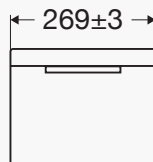
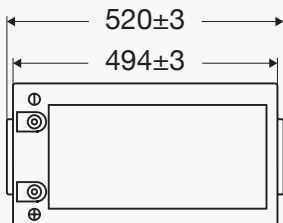
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