

# EV3800-36 - 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	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	NO

Note: Refer to User Guide for full detailed specifications

IP54 Bluetooth UN38.3 UK CA CE



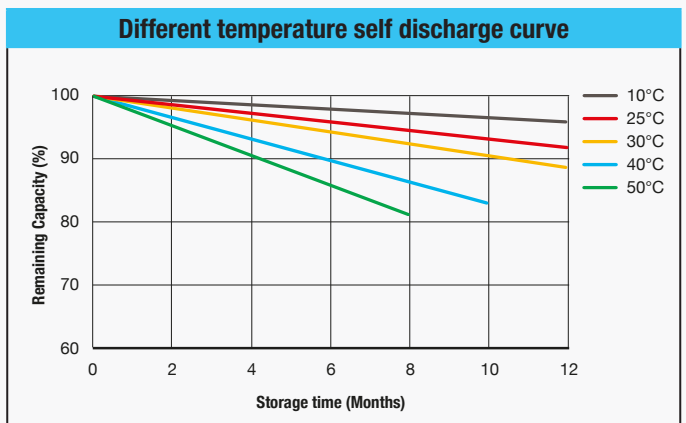
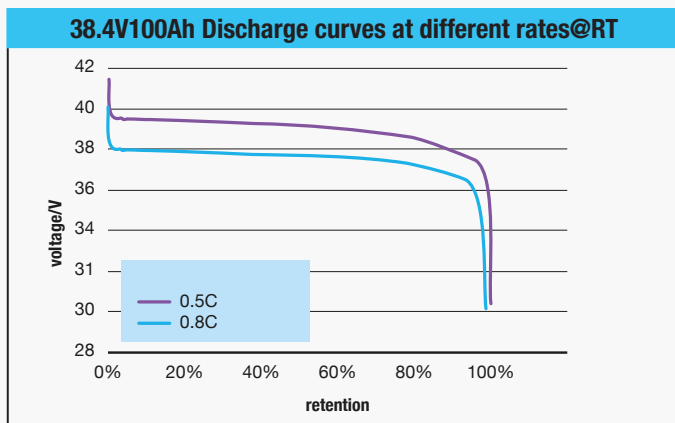
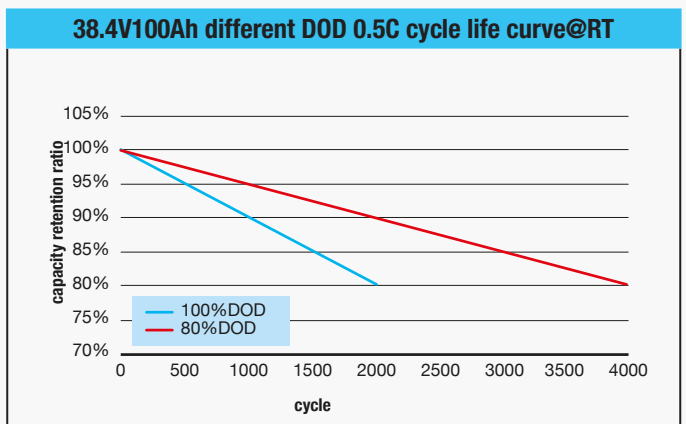
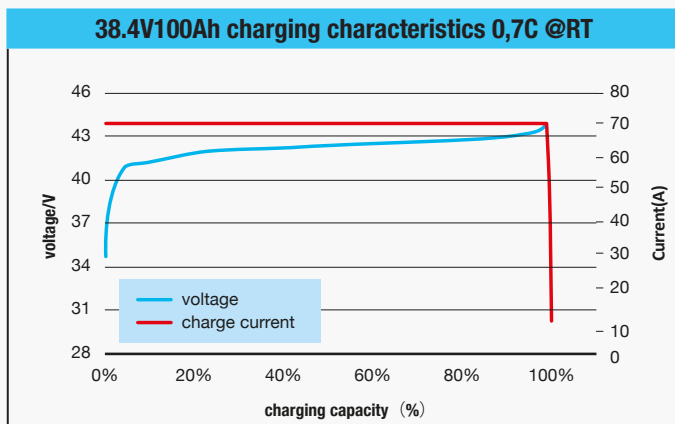
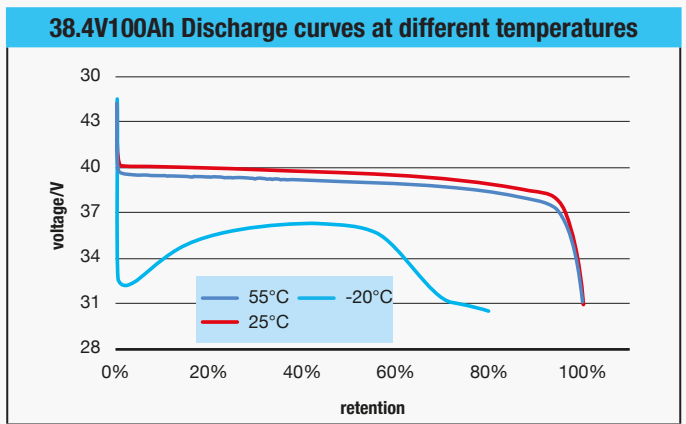
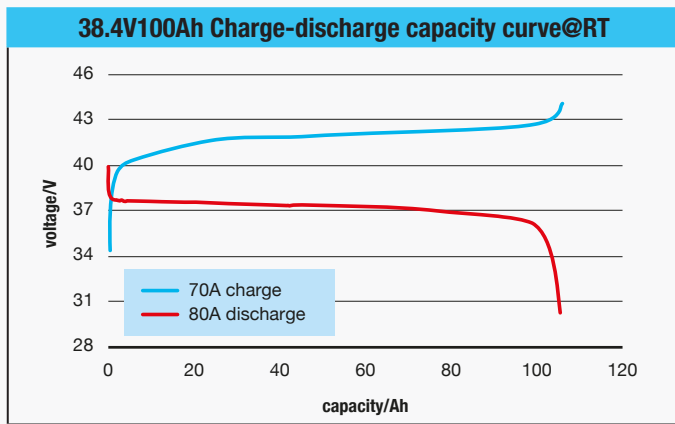
Exide Li-Ion Battery Monitor

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# EV3800-36 Marine & Leisure Li-ion Battery 38.4 V – 100 Ah – 3800 Wh

## BLUETOOTH AND INTEGRATED HEATER



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



**ULTRA LIGHT WEIGHT**



**EXTREME CYCLE LIFE**



**FAST RECHARGE**



**COLD WEATHER RECHARGE**



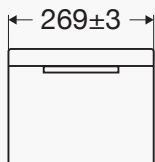
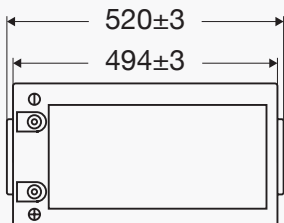
**READY TO USE**



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**SOLAR PANEL CHARGE**



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