

# 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                | <10% 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



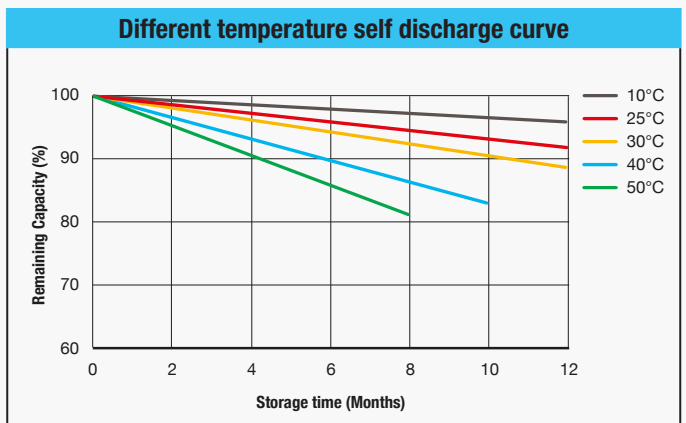
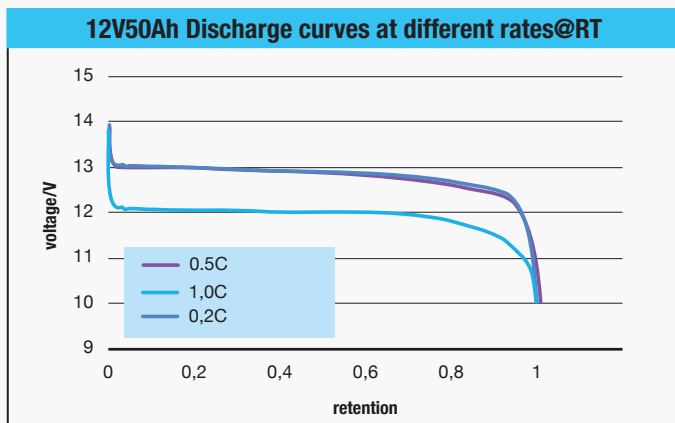
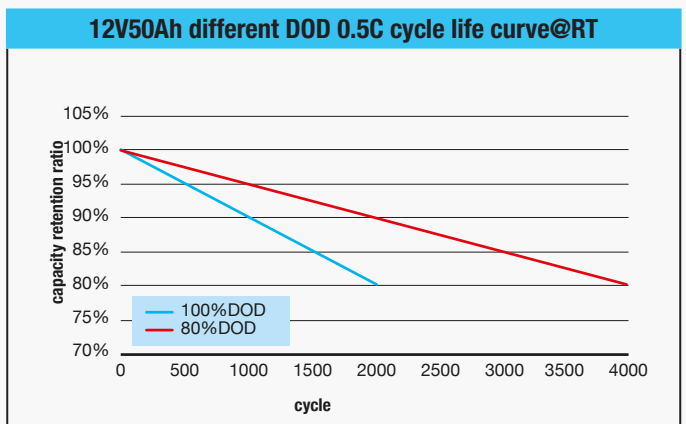
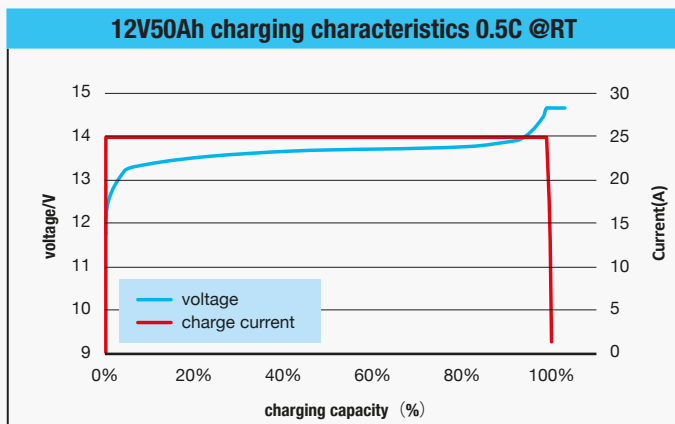
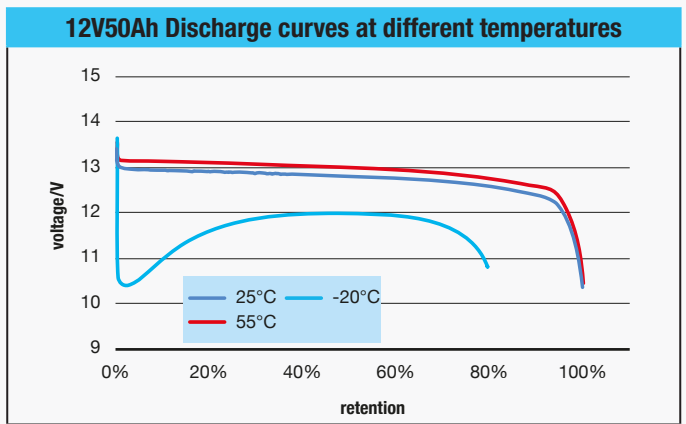
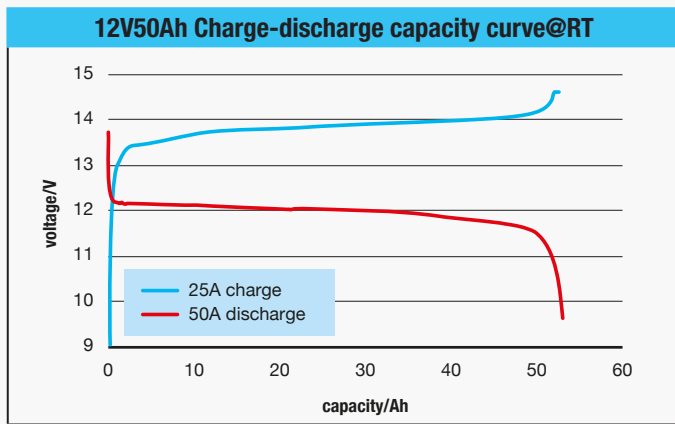
Exide Li-Ion Battery Monitor

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# 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



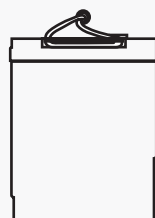
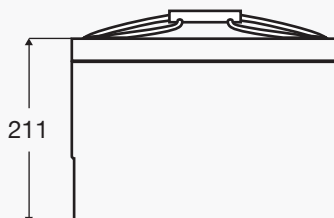
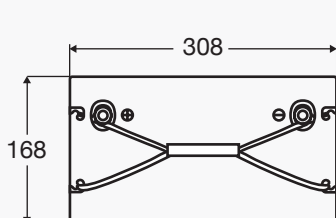
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SOLAR PANEL CHARGE



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