

RC YACHT BATTERY INFORMATION

[Compiled by RC skipper Graham Cowling June 2020]

DF65 / DF95 use **LiFePO4** Type - 2S 6.6vDC 850mAh **OR** AA Alkaline / NiMH / NiCD

NOTE: Rechargeable AA Batteries only charge to 1.2v per cell, so 4 x 1.2 = 4.8v

IOM / 10R / Laser use **LiPo** Type - 2S 7.4v DC (1000mAh to 2200mAh) different current capacities available - See Hobby King or eBay online.

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Some skippers have found their **LiPo (Lithium Polymer or more correctly Lithium-Ion)** batteries have **failed or are unable to recharge**.

The compiled internet web site information provides understanding of what is to be done to achieve reliability LiPo / LiFe type battery power in the Yacht.

MOST IMPORTANT - is to USE the CORRECT CHARGING SETUP for your type of battery... see attached files.

This similarly applies to those who use **LiFe (Lithium Iron phosphate (LiFePO4) batteries** - a different type of lithium ion (Li-Ion) rechargeable battery. Their benefits over the more traditional cobalt-based Li-Ion batteries are increased power output, faster charging, reduced weight, and longer lifetime. The LiFe batteries also have better safety characteristics and do not explode under extreme conditions. LiFePO4 batteries also eliminate the concerns of cobalt entering the environment through improper disposal once they have expired.

Useful Battery Test meter - there are TWO types,

- Black CellMeter v7 tests Battery
- Blue CellMeter v8 Test Battery AND has Servo port with 3 pin signal lead to test Rudder servo etc / adj wheel on Test unit.

CellMeter -7 Digital Battery Capacity Checker

<https://www.manualslib.com/manual/1498256/Hobbyking-Cellmeter-7.html#manual>

CellMeter 8 User Guide and Manual

(Battery Voltage Capacity Checker / Balance Discharger/ Servo Tester)

https://www.flyingtech.co.uk/sites/default/files/product_files/CellMeter%208%20User%20Guide%20and%20Manual%20V150905.pdf

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IMAC B6AC Digital Balance Charger Manual

https://www.pololu.com/file/download/iMAXB6ACmanual.pdf?file_id=0J525

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LiFePO4 Care Guide: Looking after your lithium batteries

<https://www.evworks.com.au/page/technical-information/lifepo4-care-guide-looking-after-your-lithium-batt/>

RC LIPO BATTERY GUIDE: EXPLANATION, SAFETY, AND CARE

<http://learningrc.com/LiPo-battery/>