






Why Upgrade from Lead Acid to Lithium?

When it comes to choosing the best battery for marine or RV battery applications, **Lithium Iron Phosphate** (also known as **LiFePO4**) technology offers many benefits over lead acid, including – **quick charging, low maintenance, longer lifespan and far superior performance with much safer operation.**

Additional feature and benefit comparisons are detailed below – including Bosch-specific advantages.

Lithium vs. AGM Batteries

Lithium Advantages

	2X more calendar life than AGM
	5X more cycle life than AGM
	2X more usable energy* than AGM
	1/4 the time to fast charge vs. AGM
	1/2 the weight of AGM

End Customer Unique Selling Points

Extremely Long Lifetime –
> 2X longer lifetime –
even at extreme
ambient temperatures

Lighter Weight –
Up to half the weight for
more vehicle carrying
capacity and easy handling

High Capacity –
For delivering a large
amount of power
over a long time

100% Maintenance Free –
Completely sealed,
no fluids to add and
no leakage problems



Excellent Cycling Performance & Stability –
5X more cycles achievable;
optimized for deep-cycle usage

Sleep / Wake Mode
for long periods of non-use
or off-season storage while
battery is connected; keeps
charge without any sulfation

Extremely Fast Charge –
Fully loaded in ~2 hours

State of Charge Indicator –
Know your battery's State of
Charge – and use Sleep function
to conserve reserve power

Bosch Lithium Marine/RV Batteries vs. Lead-Acid/AGM Batteries

Features & Benefits

	Lead Acid/AGM	Bosch LiFePO4
Cycle life	<400 cycles	>3000 cycles
Life span	2-5 years	8-10 years+
Weight	100%	Up to 50%
Usable capacity	50%	>85%
Charge time	6-10 hours	1-5 hours
Maintenance	Medium to High	None
Discharge rate (non use)	High (up to 30%)	Low (2-3%)
State of Charge indicator	No	Yes
Sleep/Wake function	No	Yes

*Depending on use case; 2X the usable energy on a single charge

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Lithium delivers

