

DMS technologies

Batteries and Chargers for

Marine

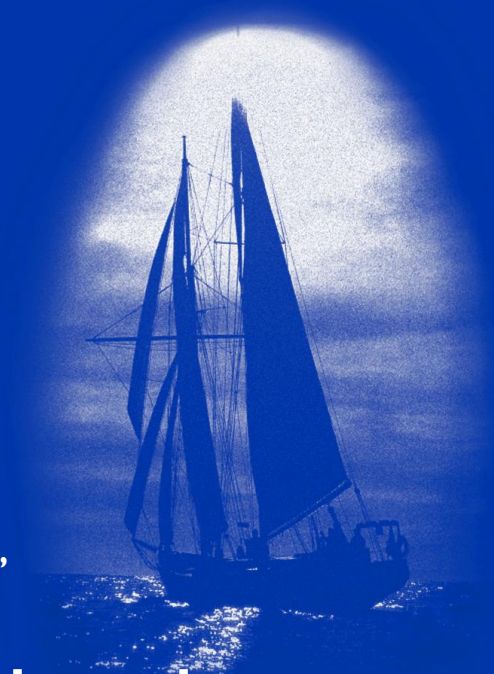
Systems



Service Load, Engine Start, Bow Thrusters,
Electric Winches and Windlasses

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ENGINEERING WITH ENERGY





RED FLASH® and **LIFELINE**

High Performance Integrated Battery Technology for **Marine** Systems

“Battery failure at sea is at best an inconvenience, at worst a disaster”

Avoid battery failure by installing a Red Flash/Lifeline integrated battery system that uses batteries specifically designed for the tasks that they have to perform on both leisure and commercial craft.

Red Flash batteries have been designed to produce the very high cranking currents needed for engine starting from the smallest possible battery.

Lifeline batteries offer increased cycle life and capacity within an industry standard battery size.

Both Red Flash and Lifeline batteries utilise aircraft battery technology designed to withstand high shock and vibration, and allow very fast high current recharge.

All batteries can be fitted either upright or on their side and are compatible with existing marine alternators, shore power charging systems and battery monitoring equipment.

With batteries from 16Ah to 255Ah there is a shape and size to meet all requirements.

SAILING YACHTS

Doubling service load battery capacity

Space on a sailing yacht is always at a premium. Red Flash batteries are designed to take up a minimum of space.

Many yachts are fitted with two 100Ah 12V batteries - one of which is used for engine starting, and the other for the service load.

It is usually possible to fit a Red Flash battery into the existing battery compartment due to its 100mm width. By fitting a Red Flash battery for engine starting, the two existing 100Ah batteries can both be connected to the service load, thus doubling the available capacity.

When these batteries need replacement, they can be replaced by Lifeline 105Ah 12V batteries.

MOTOR YACHTS, COMMERCIAL BOATS AND SUPERYACHTS

Boats in these categories normally have sufficient room to install full size batteries. By using Lifeline batteries it is often possible to significantly increase the battery capacity that can be fitted into the space available. With the increasing electrical demands of the modern boat, increased battery capacity is desirable.

The superior and rugged construction means that the small, high power, lightweight Red Flash batteries are ideal for fitting forward next to the bow thrusters and windlass, thus dispensing with the need for high cost cable running the length of the boat and eliminating voltage drop.



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RED FLASH AND LIFELINE TECHNICAL DATA

Red Flash Battery Specifications

Main Benefits

- Fully absorbed electrolyte will not leak if damaged
- Compatible with existing marine charging systems
- Sealed Construction - no maintenance
- Can be fitted upright or on side
- Fast recharge - no current limit providing a voltage regulated charger is used
- Very high cranking current

Type	Part Number	Volts	Cap Ah	Wt Kgs	Maximum Dimensions mm (LxWxH)	Terminations	Cranking Current			
							20°C for 5 sec	20°C for 30 sec	0°C for 30 sec	-18°C for 30 sec
Red Flash 700	K770-K461	12	17	6.0	170x99x175	M6 Brass studs	652 A	440 A	350 A	265 A
Red Flash 750	K770-K462	12	26	10.9	169x179x147	M6 female & bolt	925 A	700 A	590 A	470 A
Red Flash 1000	K750-K612	12	26	9.0	250x97x152	M6 studs & nuts	850 A	650 A	540 A	420 A
Red Flash 1100	K750-K464	12	37	12.5	250x97x204	M6 studs & nuts	1150 A	775 A	660 A	550 A
Red Flash 1200	K770-K465	12	44	16.0	200x169x192	M6 female & bolt	1200 A	940 A	800 A	630 A
Red Flash 1800	K770-K466	12	52	17.5	220x121x255	M6 studs & nuts	1400 A	1115 A	950 A	700 A
Red Flash 3500	K770-K560	12	70	25.0	331x169x177	M6 female & bolt	1700 A	1380 A	1180 A	930 A

Connection Option: Brass Din Type Terminals for positive and negative

Life line Battery Specifications

Type	24 Hour Rate	Dimensions mm			Reverse Minutes				Carrying Handle	Weight Kg	CCA for 30 secs	
		Length	Width	Height	25A	15A	8A	5A			20°C	0°C
GPL-27	100Ah	333	168	235	186	324	655	1196	Yes	29	845	715
GPL-31	105Ah	329	171	236	195	340	688	1298	No	31	880	750
GPL-4D	210Ah	527	220	261	390	683	1375	2578	Yes	61	1595	1360
GPL-8D	255Ah	524	278	258	475	825	1670	3130	Yes	74	1975	1675
GPL-4CT*	220Ah	263	181	294	492	856	1692	2043	No	30	1095	925

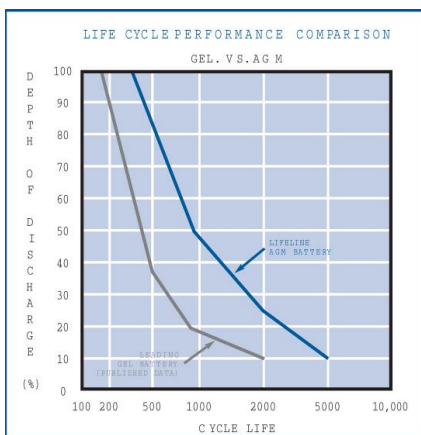
* All batteries are 12 Volts except the GPL-4CT which is 6 Volts.
Note Dimensions are overall including handles, height is over top of the terminals
Can be connected with either ring terminals or automotive clamps

RED FLASH®

Red Flash Batteries are designed for engine starting and specific high current applications such as electric winches, windlasses and bow thrusters. Their small size permits them to be fitted in spaces unsuitable for other batteries.

- Small slim batteries fit into restricted space
- Can be stored for up to 2 years before recharge (from fully charged)
- Excellent shock and vibration characteristics

Typical installation in a Westerly Ocean Ranger showing a Red Flash 1100 connected for engine starting. It has been fitted into the existing battery compartment and the two original 100Ah batteries have been connected in parallel to double the service load capacity.



Installation of Lifeline batteries in progress on a Motor Yacht showing batteries being fitted into standard battery boxes.

LIFELINE

Lifeline Batteries are designed for good all round performance and extended cycle life. They are ideal for all service load and starting requirements in yachts and commercial craft.

- Industry standard sizes
- Increased capacity against size
- Up to twice as many cycles as Gel batteries

Battery Chargers

Chargers designed for Marine Applications

Shore power chargers for installation on yachts must be able to withstand the harsh marine environment and also be compatible with the type of batteries installed. Battery life and performance are often reduced by poor charging techniques.

DMS technologies offer a range of professional 12V and 24V chargers with current ratings from 10 amps to 40 amps.

With both Red Flash and Lifeline batteries, faster recharge is possible, permitting a larger charger to be fitted. Please note that correct voltage regulated chargers must be used.

For further details please contact our Technical Sales Department.

Portable Power Packs

Complete your Balanced Power System

Portable Power Packs are ideal for starting outboard and inboard engines and for use in an emergency.

DMS technologies manufacture a family of Red Flash lightweight portable battery packs for marine use. The Red Flash 350 can be used to start outboard engines and small marine diesels. Weighing under 8 kilos it can easily be removed from the boat when not in use.



The Red Flash 650 will start larger inboard engines. With a storage life of up to 2 years it is ideal to carry as an emergency battery pack to start the yacht engine if the inboard batteries fail or have been fully discharged. Ideal for use in marinas and boat yards for emergency starting. It will also start tow vehicle engines!



Established in 1986 the name of DMS technologies is synonymous with high quality batteries and power systems used in a variety of applications. A wide range of batteries and associated products are now offered to cater for specialised applications.

If you need help selecting the correct battery size for your boat or need technical information please contact us.

Email: info@dmstech.co.uk



Design, Development, Manufacture and Supply of Batteries and Power Systems

® Red Flash is a registered trade mark of DMS technologies.
DMS technologies reserve the right to change specification without prior notice.

DMS technologies

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