

**Plug & Play power solution**



**Traction batteries**  
**Fiamm Motive Power**  
**XFC™**  
**Fast charge**  
**battery system**



# Adapting power to today's market needs....

EnerSys® launched their range of 12 volt Fiamm Motive Power® XFC™ bloc batteries into the Motive Power market in 2007. The success of the Thin Plate Pure Lead technology has led to the development of a 2 volt cell range of Fiamm Motive Power XFC batteries to satisfy a wide range of material handling equipment requirements. With increased energy density and fast charge capability these maintenance free batteries can be used at any time and recharged whenever it is possible. Advanced communication with Fiamm Motive Power HF chargers, Life IQ™ and LifeSpeed IQ™, ensures long high performance and energy costsavings.

## Unique construction

The Fiamm Motive Power XFC 2 volt cells are constructed using pure lead plates, that are much thinner than lead calcium grids. Pure lead grain structure makes the grid far more resistant to corrosion. Positive and negative plates are low impedance enabling high current flow in both discharge and recharge modes. The electrolyte is absorbed in a superior quality microporous glass mat separator with high absorption and stability designed to enhance cyclic capability. Cell boxes are highly resistant to shock and vibration.

## Fast charge

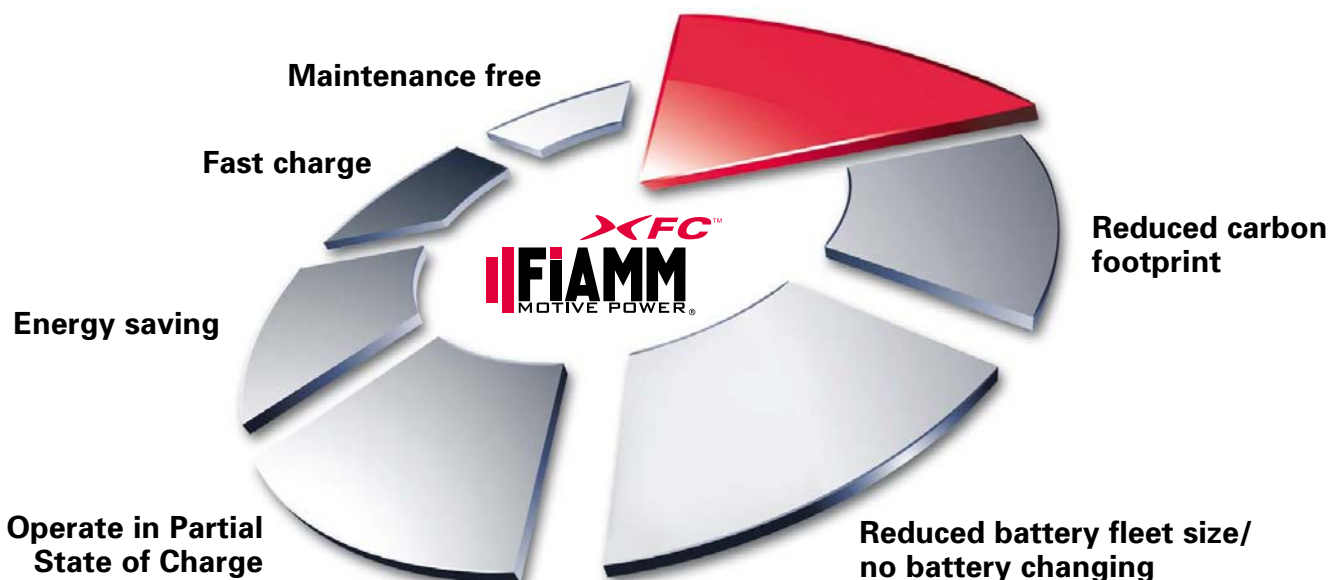
Unlike conventional lead/acid batteries where the state of discharge reaches a specified level and then requires recharging for 8-12 hours, Fiamm Motive Power XFC is totally flexible giving increased autonomy to the user. The specific charging profile allows a rapid recharge in less than 4 hours from 60% DOD and opportunity charging as often as needed, without damaging Fiamm Motive Power XFC batteries. These specialized charging capabilities are standard features in the Fiamm Motive Power HF chargers: Life IQ and LifeSpeed IQ. The other integral part of the Fiamm Motive Power XFC system is the Wi-IQ®2 monitoring device which precisely manages the charging profile to suit the state of charge and operating conditions of the battery as well as storing complete data of the battery's service life.

## More applications

Fiamm Motive Power XFC batteries are suitable for use in the following MH (material handling) applications:

- counterbalance trucks
- reach trucks
- pallet trucks
- order pickers
- AGV's

The state-of-art technology of Fiamm Motive Power® XFC™ batteries allows exceptional performance and a long list of benefits compared to conventional flooded or gel batteries.



## Customer benefits

- superior and stable performance even at high discharge rates (high energy density)
- operating in PSOC (Partial State of Charge) – increased truck availability
- opportunity charging whenever the truck is not used- can minimize the need for spare batteries and battery changing
- short recharge time – less than 4 hours from 60% DOD with matched Fiamm Motive Power IQ chargers\*
- totally maintenance free – no topping up
- suitable for multi-shifts operations- machine availability optimization
- excellent cycle life (up to 1200 cycles at 60% DOD)
- high energy throughput (up to 160% of  $C_5$  per 24 hours)\*\*
- minimum gassing-ideal for use in sensitive manufacturing areas
- environmentally friendly – reduced carbon footprint and electricity consumption due to very low charge factor

## Fiamm Motive Power XFC – The unique battery system

Cell type	Nominal capacity $C_5$	Total cell height (mm)	Cell length (mm)	Cell width (mm)	Cell weight $\pm 5\%$ (kg)
	Ah				
6XFC130	130	370	47	198	8.9
9XFC195	195	370	65	198	12.6
12XFC260	260	370	83	198	16.4
15XFC325	325	370	101	198	20.1
18XFC390	390	370	119	198	23.8
6XFC164	164	435	47	198	10.8
9XFC246	246	435	65	198	15.3
12XFC328	328	435	83	198	19.8
15XFC410	410	435	101	198	24.4
18XFC492	492	435	119	198	29.0
6XFC190	190	485	47	198	12.2
9XFC285	285	485	65	198	17.4
12XFC380	380	485	83	198	22.6
15XFC475	475	485	101	198	27.8
18XFC570	570	485	119	198	33.0
6XFC220	220	541	47	198	13.8
9XFC330	330	541	65	198	19.8
12XFC440	440	541	83	198	25.7
15XFC550	550	541	101	198	31.6
18XFC660	660	541	119	198	37.6
6XFC234	234	574	47	198	14.8
9XFC351	351	574	65	198	21.1
12XFC468	468	574	83	198	27.5
15XFC585	585	574	101	198	33.8
18XFC702	702	574	119	198	40.2
6XFC250	250	600	47	198	15.6
9XFC375	375	600	65	198	22.2
12XFC500	500	600	83	198	28.8
15XFC625	625	600	101	198	35.5
18XFC750	750	600	119	198	42.1

The designated charging rate for Fiamm Motive Power XFC is between 0.4-0.32  $C_5$  giving optimum performance, recharge time and cycle life.

\* for 0.4  $C_5$  charging rate    \*\* maximum DOD must be observed

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