

**Lithium**  
SAFEFLEX

# FBP-1000 Series Motive Power Lithium Batteries

## Overview

Lithium SAFEFlex is a comprehensive battery solution designed to meet the cost, performance, efficiency and durability requirements of the rugged warehouse environment. It includes application-specific cell chemistry and intelligent battery management electronics. FBP-1000 series Lithium SafeFlex battery systems are high cycle life maintenance free solutions for industrial vehicles with fully customizable features to fulfill the most demanding requirements. The drop in replacement batteries make upgrading from Lead Acid to Lithium simple. The batteries are sized to fit the standard motive power lead acid battery, along with meeting the truck battery weight requirements. From 5kWh to 35kWh, Green Cubes Technologies has batteries ready for the application.

## Features

### Ease of Use

- Single point battery connection replicates today's lead acid without special truck or charger modifications
- Configurable dot matrix battery discharge indicator provide critical battery information along with errors or other important runtime data
- No Maintenance
  - No Watering
  - No Equalization Charging
  - No Battery Washing Needed!

### Flexible Design for Optimized Truck Applications

- Green Cubes Custom Battery Management System (BMS) can be adjusted for different performance based upon the application.
- High Current Trucks with Accessories
- Low Temperature Storage Operations
- High Cycle Opportunity Charging
- Fully ballasted battery for heavy counterbalance trucks or non-ballasted batteries for light application

## Safety & Protection

- Higher safety Lithium Iron Phosphate chemistry cells utilized in the battery systems
- Voltage, Current, and Temperatures are continuously monitored by Green Cubes Technology's custom Battery Management System (BMS) which controls the internal safety contactors or disconnect fuse.
- Constructed from UL approved components.

## Benefits

- High Cycle Life
- True Fast Charge/ Opportunity Charge
- No Maintenance
- Drop In Lead Acid Replacement

## Energy Savings

- Recharge efficiency of 98% or higher helps save electricity and also reduce damaging effects of heating the batteries
- Improvements in runtime capacity efficiency of 10% or higher
- Weekly Equalization charges are not required



## Applications

Fork Lifts/ Pallet Trucks ■ AGV (Automated Guided Vehicle)

Ground Support Equipment ■ Industrial Electric Vehicles

### Flexible Battery Pack (FBP) Series Motive Power Lithium Batteries Popular Models

Model	Voltage	Lithium Capacity	Battery Weight	Battery Dimensions	Charge Port
FBP-1468	24	105	330	24 x 6 x 22	no
FBP-1407	24	105	360	25.25 x 8.50 x 23	no
FBP-1441	24	315	1000	30.60 x 12.75 x 22.50	yes
FBP-1403	24	420	975	30.5 x 12.50 x 30.50	yes
FBP-1423	36	630	2250	38.25 x 24.50 x 22.50	yes
FBP-1512	36	525	1900	38.5 x 21 x 22.50	yes
FBP-1328	36	525	1850	37.75 x 13.25 x 30.50	yes
FBP-1413	36	630	2300	38 x 17.75 x 30.50	yes
FBP-1414	36	735	2600	38.25 x 20 x 30.50	yes
FBP-1486	48	420	1850	34 x 26 x 22.50	no
FBP-1490	48	525	2300	38.50 x 27 x 22.50	yes
FBP-1419	48	630	3000	38.25 x 32.25 x 20.50	yes
FBP-1443	48	735	3100	38.25 x 32.25 x 22.50	yes
FBP-1432	80	525	3400	38.75 x 36 x 22.50	yes
FBP-1481	80	420	3100	36.08 x 38.58 x 21.50	yes
FBP-1492	80	630	4600	40.5 x 39 x 31	yes
FBP-1421	80	735	4600	44 x 39.75 x 28	yes

#### ABOUT GREEN CUBES TECHNOLOGY

Green Cubes Technology develops and manufactures a complete portfolio of lithium power systems that enable our OEM and enterprise customers to transition from Lead Acid and Internal Combustion Engine (ICE) power to Lithium-ion battery power. We utilize proven hardware and software platforms to build the most reliable lithium battery systems in our industries. With over 300 employees across six countries, Green Cubes has been producing reliable, high performance and high quality products for over 30 years.

For more information, email [info@greencubestech.com](mailto:info@greencubestech.com)  
or visit [greencubestech.com](http://greencubestech.com)

