

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 80kWh, Green Cubes Technologies has batteries ready for the application.

Features

Ease of Use

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

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