



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 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

Battery Model	V	Ah	Power	Battery Width	Battery Length	Battery Height	Weight	Options
FBP-1487	24	105	2.7	25.25	7.50	25.34	400	ON-BOARD600
FBP-1441	24	315	8.1	30.60	12.75	22.50	975	CHARGE PORT
FBP-1608	24	420	10.8	30.50	12.50	23.75	1000	CHARGE PORT
FBP-1409	24	525	13.4	30.50	12.50	30.50	980	CHARGE PORT
FBP-1580	24	630	16.1	38.50	14.00	30.50	1600	CHARGE PORT
FBP-1328	36	525	20.2	37.75	13.25	30.50	1900	CHARGE PORT
FBP-1332	36	525	20.2	38.25	24.44	22.33	2400	CHARGE PORT
FBP-1578	36	525	20.2	35.25	27.00	22.50	2100	CHARGE PORT
FBP-1413	36	630	24.2	38.00	17.75	30.50	2500	CHARGE PORT
FBP-1489	36	630	24.2	38.25	15.75	30.75	2100	CHARGE PORT
FBP-1423	36	630	24.2	38.25	24.50	22.50	2550	CHARGE PORT
FBP-1520	36	735	28.2	38.50	15.75	30.50	2000	CHARGE PORT
FBP-1416	36	735	28.2	38.25	20.00	30.50	2800	CHARGE PORT
FBP-1439	36	840	32.3	38.25	17.75	30.50	2300	CHARGE PORT
FBP-1327	48	420	21.5	37.50	20.75	22.50	1900	CHARGE PORT
FBP-1311	48	525	26.9	38.25	24.44	22.50	2600	CHARGE PORT
FBP-1471	48	630	32.3	38.25	32.75	22.50	3400	CHARGE PORT
FBP-1479	48	630	32.3	39.40	33.90	22.50	3100	CHARGE PORT
FBP-1683	48	735	37.6	38.50	35.75	22.50	3500	CHARGE PORT
FBP-1443	48	735	37.6	38.25	32.25	22.50	3300	CHARGE PORT
FBP-1404	48	840	43.0	38.25	32.25	22.50	3100	CHARGE PORT
FBP-1405	80	420	34.9	40.00	27.50	30.00	3500	CHARGE PORT
FBP-1508	80	525	43.7	40.00	33.00	30.00	4400	CHARGE PORT
FBP-1525	80	525	43.7	40.00	39.00	30.50	4700	CHARGE PORT
FBP-1664	80	630	52.4	40.00	33.00	30.00	4500	CHARGE PORT
FBP-1596	80	630	52.4	40.00	39.00	30.50	4600	CHARGE PORT
FBP-1522	80	735	61.2	40.00	33.00	30.00	4600	CHARGE PORT

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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