



NEW ENERGY SOLUTION



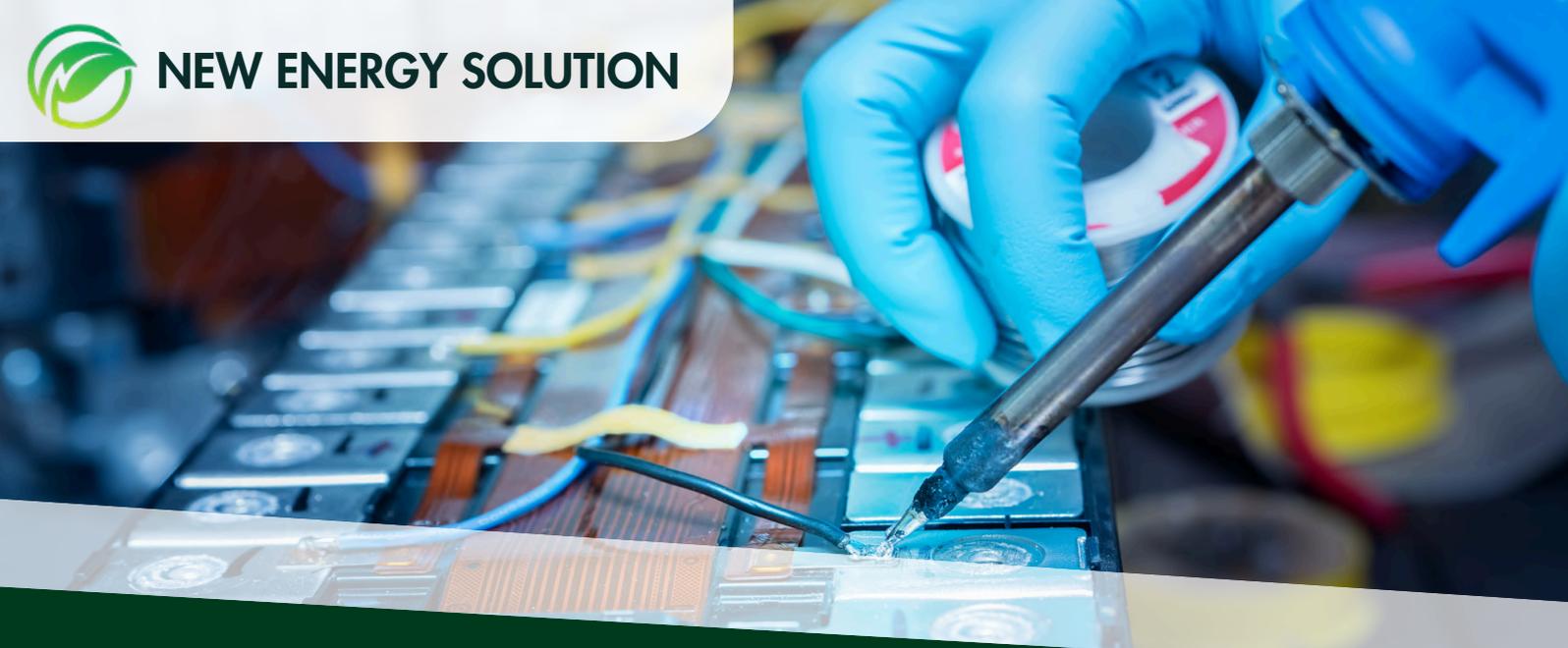
# MATERIAL HANDLING LITHIUM BATTERY CATALOGUE



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## About **Company**

New Energy Solution is a leading manufacturer of lithium battery packs including lithium iron phosphate (LiFePO<sub>4</sub>), Lithium Ion, Lithium Polymer(LiPo) battery packs . Established two years ago by a team of Engineers , we have provided our satisfied customers with battery packs with excellent safety, high energy performance and long-lasting life and received good feedback from them.

At New Energy Solution, we are revolutionizing the lithium-ion battery industry by combining cutting-edge technology with a passion for sustainability.

We're proud to offer highly differentiated Lithium Iron Phosphate and Lithium-Ion Battery Cells, Modules and Battery packs.

”

**Last Longer, Perform Better**  
with New Energy Solution Lithium Phosphate  
Compact Batteries

”

# Our Philosophy

Our motto, Challenge Your Limits, reflects our philosophy to push yourself to greatness.

We, along with our customers, live and breathe adventure and relish the opportunities that our planet provides.

We feel it is our duty to do better as a business, making our batteries as sustainable as possible for our customers to achieve their full potential.

# Our Mission

To power the world's transition to Lithium energy storage, ethically.

To provide energy-efficient, high-performance lithium batteries that last longer and perform better, ensuring reliability and cost-effectiveness for our customers.

To be the most sought after & admired Lithium battery company in the world by helping our customers challenge and overcome their limits

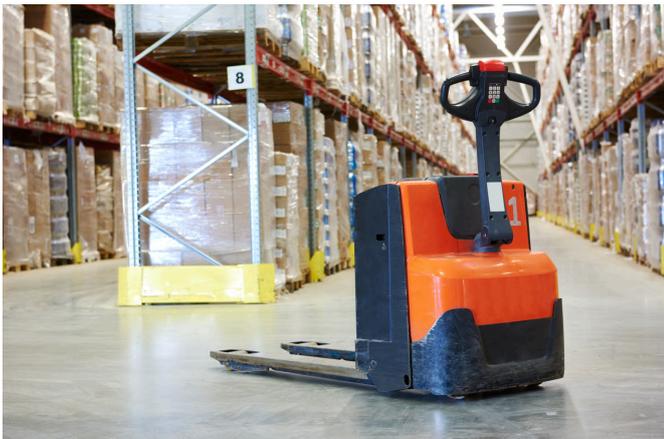


# PRODUCTS FOR ANY APPLICATION



BOOM LIFT

From drop-in-ready products to custom solutions, New Energy Solution lithium iron phosphate batteries are one of the most durable and reliable energy sources on the market. And, they're perfect for powering a wide variety of material handling applications such as forklifts, pallet trucks, AGVs, stackers boom lift, scissor lift and more.



PALLET TRUCK



FORKLIFT



STACKER

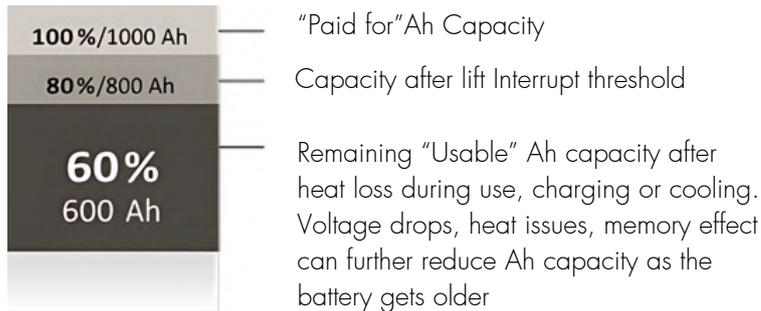


SCISSOR LIFT

# Why Go Lithium Over Lead Battery ?

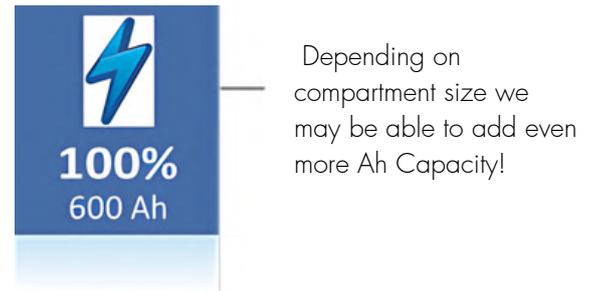
## "Paid for" vs "Usable" Ah Capacity.

### Lead Acid Battery



**You pay for 1000 Ah**  
**You get 600 Ah**

### Lithium Phospate Battery



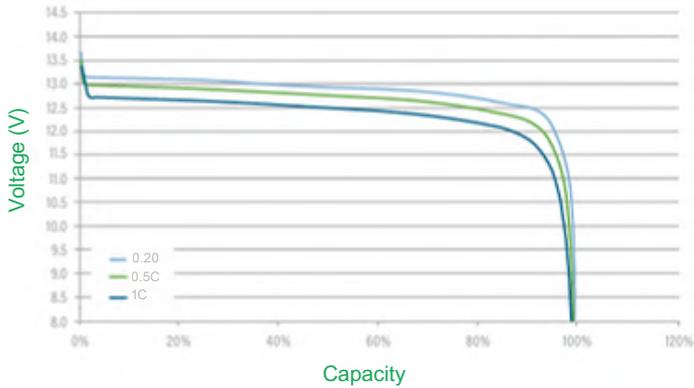
**You pay for 600 Ah**  
**You get 600 Ah**

## Lithium vs. Lead-Acid Comparison

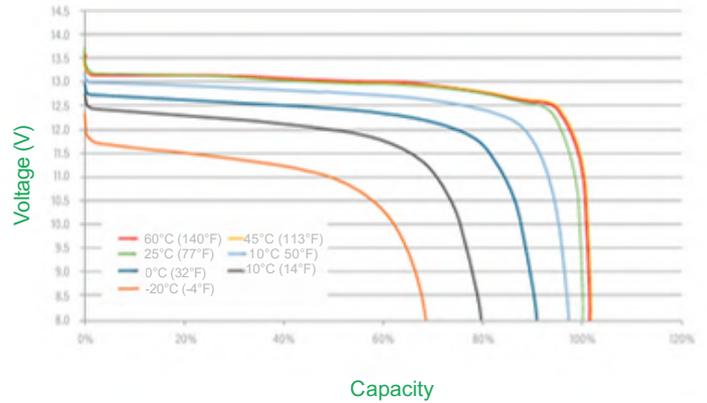
FEATURE	LEAD-ACID	LiFePO4
Cycle Life	300 - 400	3,500
Max Usable Capacity	50%	85%
Discharge Efficiency	50-90%	99%
Maintenance	High	None
Charge Time	6 - 12 Hours	1 - 5 Hours
Partial Charging Capable	No	Yes
Weight Comparison	100%	50%
Charge Efficiency	80%	99%
Cost	₹	₹₹₹

# Lithium Iron Phosphate Characteristics

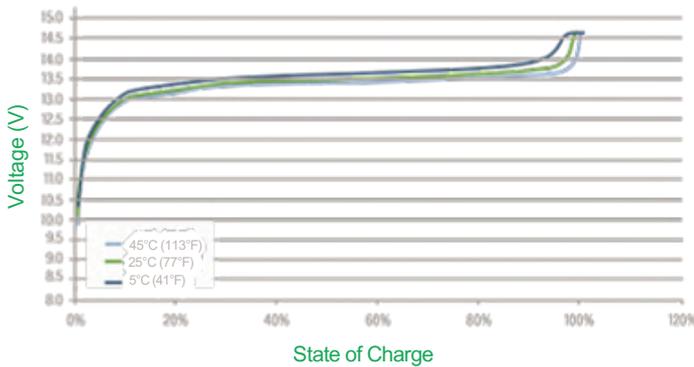
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES  
25°C (77°F)



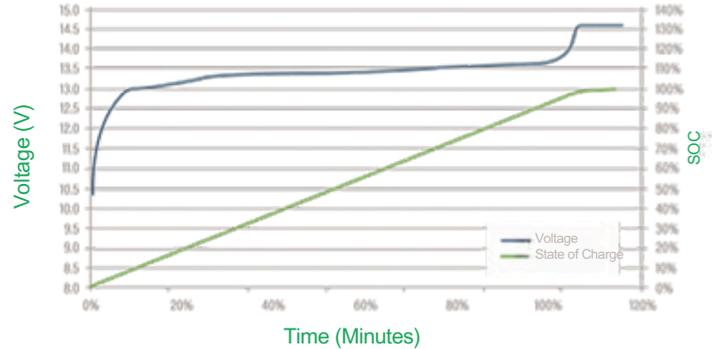
DISCHARGE VOLTAGE CHARACTERISTICS AT VARIOUS TEMPERATURES DISCHARGE 1C



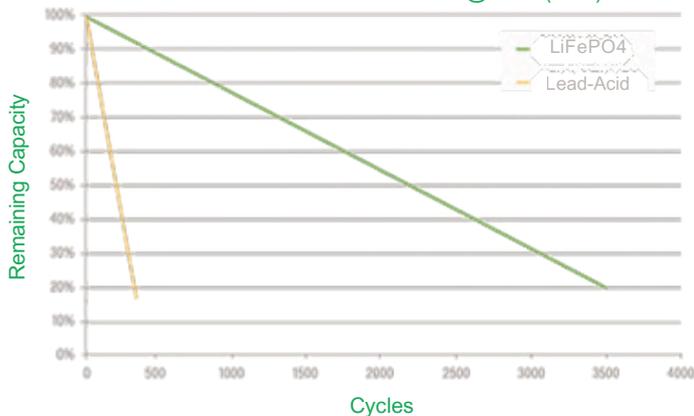
CHARGE VOLTAGE CHARACTERISTICS AT VARIOUS RATES  
CHARGE 0.2C



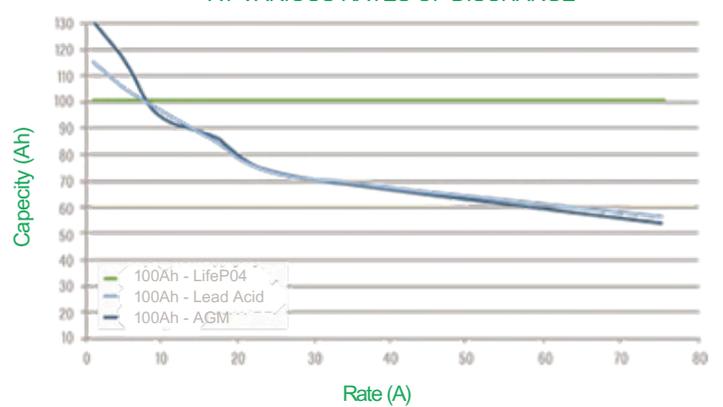
CHARGE VOLTAGE AND STATE OF CHARGE (SOC)  
CHANGE 0.20 @ 25°C (77°F)



CYCLE LIFE VS. DEPTH OF DISCHARGE (DOD) AT 80%  
DISCHARGE OBC/CHARGE 0.5C @ 25°C (77°F)



CAPACITY OF LiFePO4 vs. LEAD ACID  
AT VARIOUS RATES OF DISCHARGE



\*Performance between applications and batteries may vary. All results should be independently verified by customer.



## Why Pay More For LIFEPO4?



### **MORE USABLE CAPACITY**

Lithium batteries allow you to use 100% of their capacity, regardless of the rate of discharge.



### **LONGER LIFE**

lithium batteries provide up to 10 times longer life than lead-acid batteries, and they still provide 80% of rated capacity after 3,500 cycles.



### **LOW SELF CHARGE**

Partial charging does not affect performance quality or battery life. A low self-discharge rate means worry free storage so even occasional users can be assured of reliable performance.



### **CONSTANT POWER**

Full power available throughout discharge. Voltage does not drop like lead-acid.



### **ECO-FRIENDLY AND SAFE**

No gassing, no fumes and no pollution. Enjoy reliable power, while protecting the environment, using these non hazardous batteries.



### **LIGHTER WEIGHT**

50-60% less weight than lead-acid equivalent.



### **MAINTENANCE-FREE**

Plug, play and charge. No watering.



### **TEMPERATURE TOLERANCE**

2.5X more efficient operation at low temperatures. Safely operational up to 149°F (65°C).



### **INSTALLATION FLEXIBILITY**

Can be installed upright or on its side



## 24V/36V FORKLIFT/STACKER/PALLET/BOOM LIFT BATTERIES



MODEL	VOLTAGE (V)	CAPACITY (AH)	ENERGY (Wh)	MAXIMUM DISCHARGE CURRENT(A)	DIMENSION (mm)	WEIGHT (kg)
24/100	25.6	100	2560	100	340*200*130	22
24/150	25.6	150	3840	150	402*220*130	33
24/200	25.6	200	5120	200	410*284*173	42
24/240	25.6	250	6144	250	456*292*174	51
24/271	25.6	271	6937	271	516*308*175	57
24/300	25.6	300	7680	300	560*340*200	64
36/100	38.4	100	3840	100	340*300*130	32
36/150	38.4	150	5760	150	402*330*130	48
36/200	38.4	200	7680	200	426*410*173	64
36/240	38.4	250	9216	250	456*438*174	79
36/271	38.4	271	10406	271	516*462*175	85
36/300	38.4	300	11520	300	560*510*200	95

- We don't list all our model here, please contact our sales for other model.
- Size of the battery may vary.
- A battery can be customized to meet the specific requirements of the customer.

**48V/60V/72V FORKLIFT/STACKER/PALLET/BOOM LIFT BATTERIES**


MODEL	VOLTAGE (V)	CAPACITY (AH)	ENERGY (Wh)	MAXIMUM DISCHARGE CURRENT (A)	DIMENSION (mm)	WEIGHT (kg)
48/100	51.2	100	5120	100	400*340*130	41
48/200	51.2	200	10240	200	568*420*173	84
48/300	51.2	300	15360	300	680*560*200	126
60/100	60.8	100	60800	100	500*400*340	50
60/200	60.8	200	12160	200	710*568*420	98
60/300	60.8	300	18240	300	850*680*560	149
72/100	73.6	100	7360	100	600*400*340	59
72/200	73.6	200	14760	200	852*568*420	119
72/300	73.6	300	22140	300	1020*680*560	177
80/100	83.2	100	8320	100	650*400*340	67
80/200	83.2	200	16640	200	923*568*420	133
80/300	83.2	300	24960	300	1105*680*560	201

- We don't list all our model here, please contact our sales for other model.
- Size of the battery may vary.
- Battery can be made customizable according to the arrangement of cell.



## THE FEATURES THAT MAKE **NEW ENERGY SOLUTION** **BATTERY SUPERIOR!!!**



### **EASY INSTALLATION**

New Energy Solution lithium batteries can be installed upright or on their side allowing for flexible installation and easier configuration.



### **SCALABLE SYSTEM**

New Energy Solution batteries offer freedom and flexibility by utilizing parallel connections, so you can scale your system to provide increased power and energy as needed.



### **INTELLIGENT COOLING**

New Energy Solution uses a carefully engineered cooling management system to quickly remove heat from inside the battery during conditions of high discharge and recharge currents. This prevents overheating of critical components and extends the life of the battery.



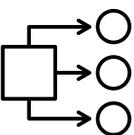
### **SUPERSMART BMS**

The robust battery management system features a combined total of 48 charge and discharge MOSFETs that control current flow in and out of the battery, along with multilayer protective devices that prevent over/under voltage, current and temperature conditions. The multilayer protection allows New Energy Solution batteries to pass stringent UL safety standards.



### **ROBUST COMMUNICATION**

CAN bus connections allow batteries to communicate real-time operating statistics like the voltage, current, state of charge and state of health, making New Energy Solution batteries more user friendly. Plus, all batteries feature a sleep and pulse recovery operation mode to conserve power.



### **PARALLEL BATTERY TOPOLOGY**

In case of module malfunction, the faulty module is automatically disconnected and remains inactive via remote action, without interrupting the battery operation until the service representative arrives on-site.



## Our Services

Service 01



CUSTOMIZED SOLUTIONS

Service 02



BATTERY TESTING

Service 03



SYSTEM INTEGRATION

Service 04



TECHNICAL SUPPORT

Service 05



ENERGY CONSULTATION

Service 06



MAINTENANCE PLANS

# Projects Completed



2 \* 48V 510Ah  
Ameya Finishing Solutions Pvt  
Ltd,Chakan



4 \* 24V 200Ah  
Hindustan Equipments Pvt  
Ltd,Indore



Two 48V 650Ah Forklift Battery  
,Bhosari



6 \* 48V 450Ah  
Indian Lifters,Chakan

# Client Testimonials

**Technosys  
Equipments,  
Bhosari,Pune**

" New Energy Solution batteries are remarkably reliable and can stand much more abuse and need much less attention compared to lead acid."

**Yogesh Sutarr (Director Business Development)**

**Novel industrial  
equipment &  
services,  
Bhosari,Pune**

"I recently purchased a battery from New Energy Solution and was blown away by their exceptional customer service. The staff was knowledgeable, friendly, and went above and beyond to help me find the perfect battery for my needs. I highly recommend New Energy Solution for anyone looking for quality products and outstanding service."

**Prasad Dhaniwale (Sales Manager)**

**Aastha Enterprises,  
Bhosari,Pune**

" New Energy Solution Batteries ensured the switch to Li-ion was smooth. On top of minimizing downtime during shifts we finally got rid of the lead acid batteries daily maintenance and messy charging area."

**Ganesh Patil (Co Founder)**

**Indian Lifters,  
Chakan,Pune**

"I was concerned about the application of a BMS. Having an integrated BMS is fantastic. No more worries. I needed two 48V 450AH lithium battery for my lead acid forklifts and after replacing lead with lithium, results were fantastic. With higher power density, our forklifts are working much better than before for longer time.

**Bhagwat Darade(CEO)**

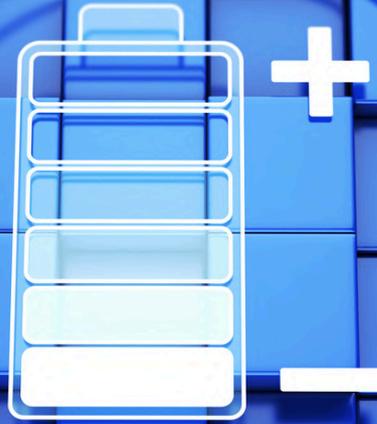
**Hindustan  
Equipments Pvt.  
Ltd Indore,MP**

" To be honest, coming from using lead acid batteries for my forklift for very longtime, I am pretty comfortable with lithium batteries right now. Also I was blown away with duration of use and power density these have."

**Umar Khan(Marketing Manager)**



**NEW ENERGY SOLUTION**



# Get In **Touch**

## **Last Longer, Perform Better**

with New Energy Solution  
Lithium Compact Batteries

Contact Us :



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[www.newenergysolution.in](http://www.newenergysolution.in)



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