



NEW ENERGY SOLUTION

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# SOLAR INVERTER & LITHIUM BATTERY CATALOGUE







# About Company

New Energy Solution is a leading manufacturer of lithium battery packs including lithium iron phosphate ( $\text{LiFePO}_4$ ), Lithium Ion, Lithium Polymer ( $\text{LiPo}$ ) 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 Ion  
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.

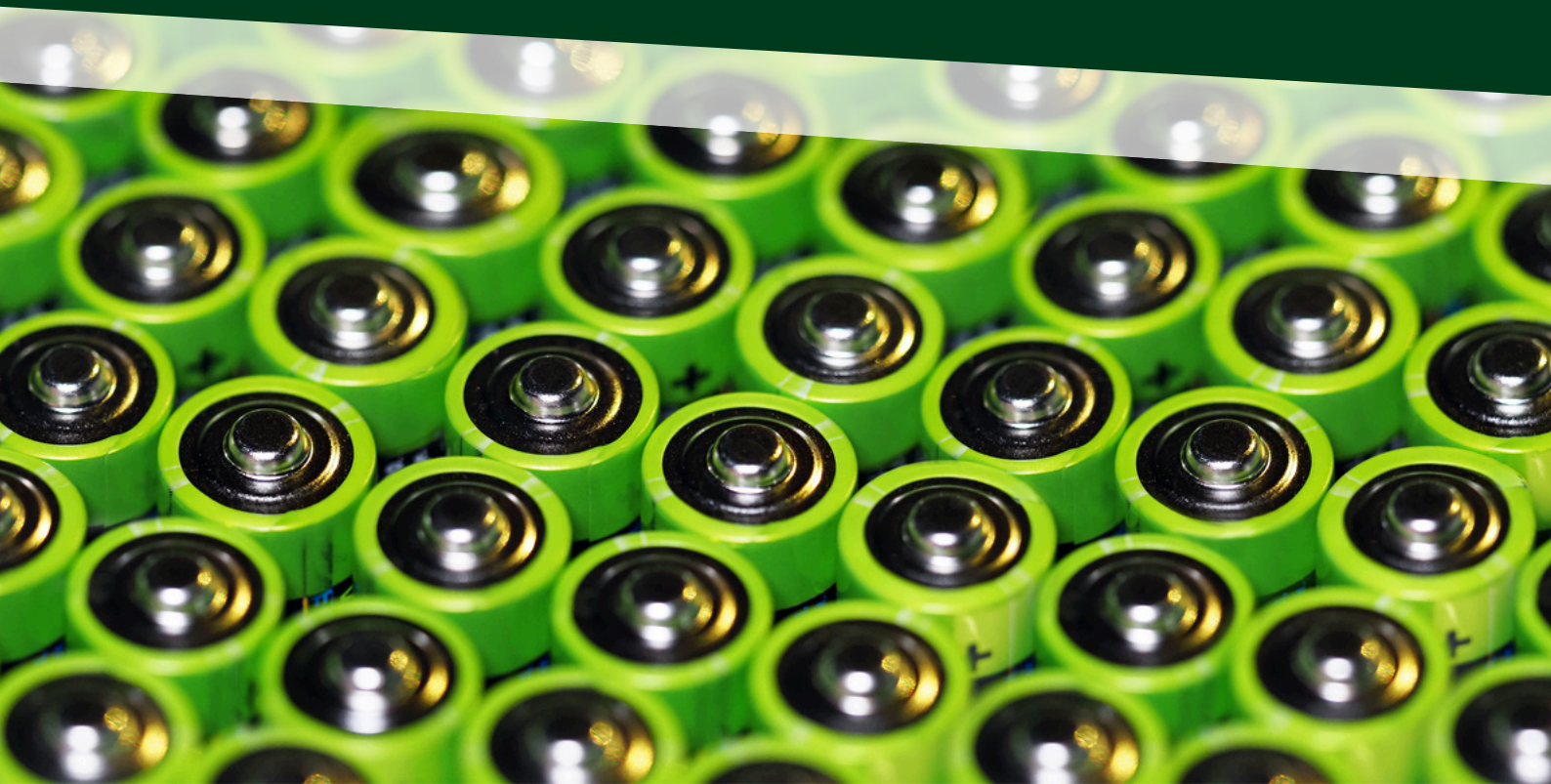
We feel it is our duty to do better as a business, making our batteries as sustainable as possible for our customers to achieve their full potential.

## 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



RESIDENTIAL SOLAR

From drop-in-ready products to custom solutions, New Energy Solution lithium ion and LiFeO<sub>4</sub> batteries are one of the most durable and reliable energy sources on the market. And combined with our solar inverter, they are perfect for powering a wide variety of solar applications such as Solar RV, Residential Solar Energy, Solar Street Lamp, Solar Power Generator, Solar Boat



CHARGING STATION



COMMERCIAL SOLAR



STREET LAMP



SOLAR RV

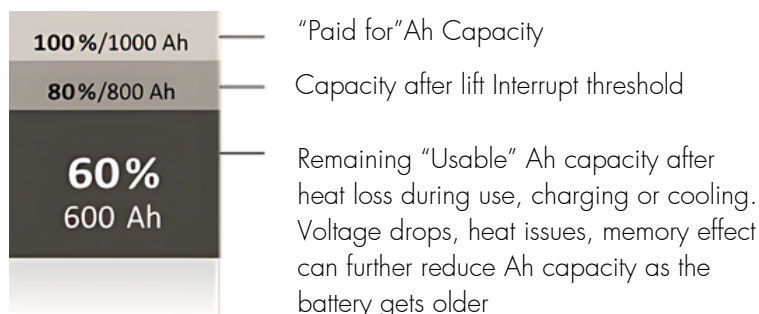




## Why Go Lithium Over Lead Battery ?

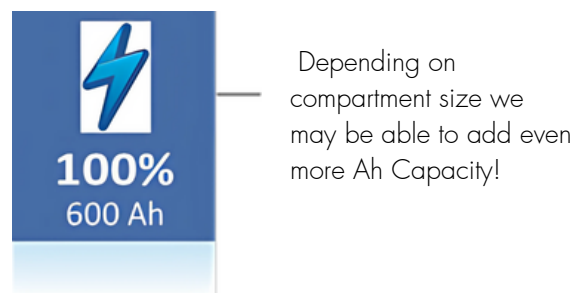
### "Paid for" vs "Usable" Ah Capacity

#### Lead Acid Battery



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

#### Lithium Phosphate Battery



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

### Lithium vs. Lead-Acid Comparison

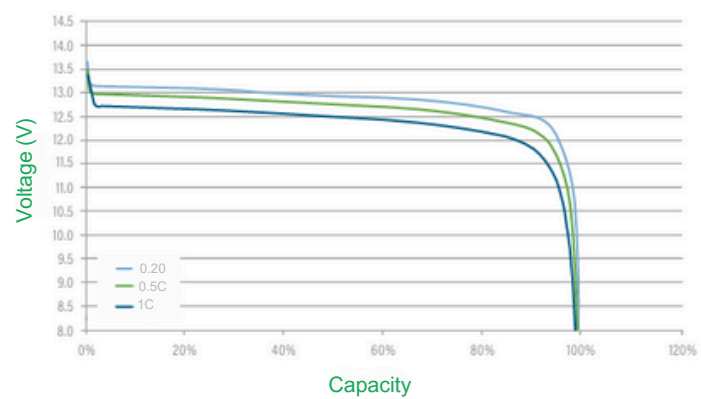
FEATURE	LEAD-ACID	LiFePO4
Cycle Life	300 - 400	3,500
Max Usable Capacity	50%	85%
Discharge Efficiency	50-90%	99%
Maintenance	High	None
Charge Time	6 - 12 Hours	1 - 5 Hours
Partial Charging Capable	No	Yes
Weight Comparison	100%	50%
Charge Efficiency	80%	99%
Cost	₹	₹₹₹



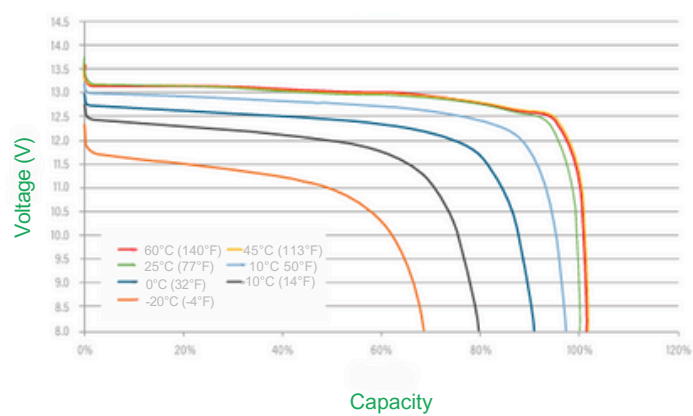
# Lithium Iron Phosphate

## Characteristics

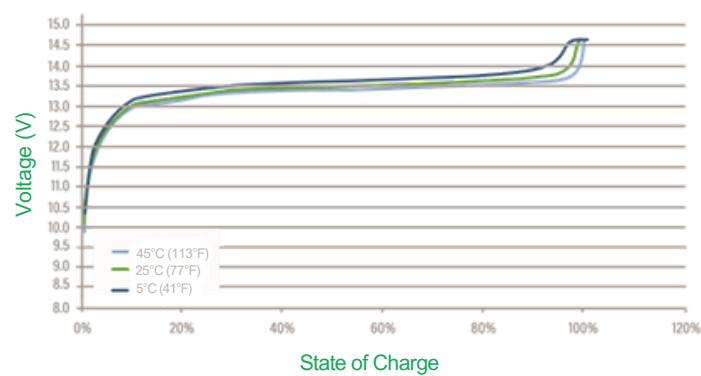
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES  
25°C (77°F)



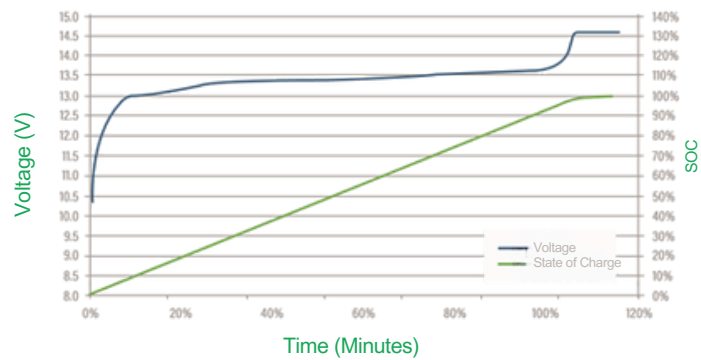
DISCHARGE VOLTAGE CHARACTERISTICS AT VARIOUS TEMPERATURES DISCHARGE 1C



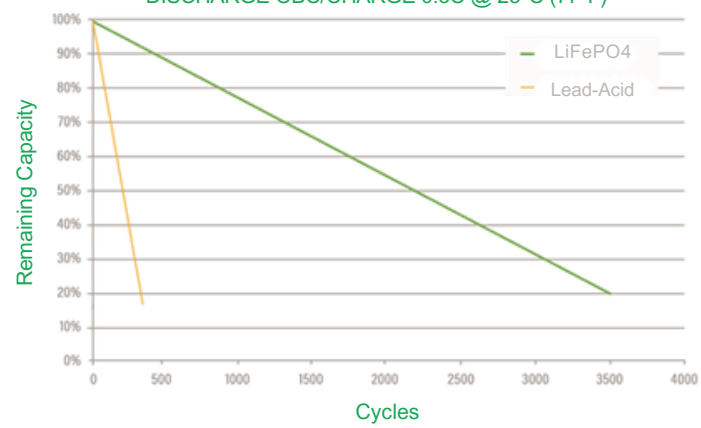
CHARGE VOLTAGE CHARACTERISTICS AT VARIOUS RATES  
CHARGE 0.2C



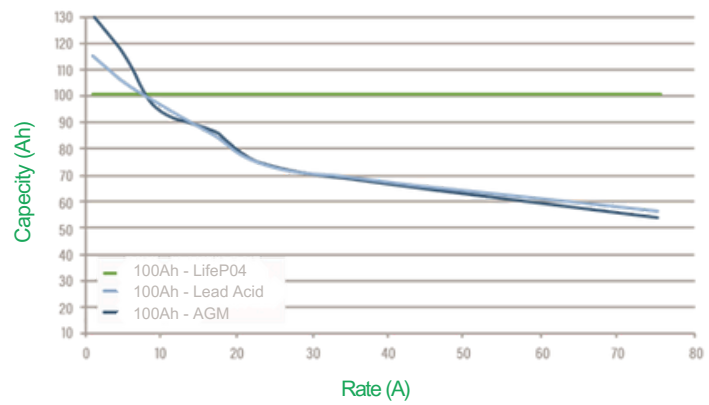
CHARNIE VOLTAGE AND STATE OF CHAINE (SOC) CHANGE 0.20 @ 25°C (77°F)



CYCLE LIFE YS. 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.



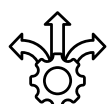
### MAINTENANCE-FREE

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



## 1250VA OFF-GRID SOLAR INVERTER



- Delivers a robust **840W output**.
- **Inbuilt 12V 100Ah LiFePO4 Battery**: With lithium iron phosphate technology, this solar inverter offers a longer cycle life, faster charging, and greater energy efficiency compared to traditional lead-acid batteries.
- Backup Time: Provides **up to 4 hours of backup at a 300W load**, ensuring your essential equipment stays powered during extended outages.
- Home Use: Powers lights, computers, TVs, and routers during outages.
- Office & Commercial Use: Ideal for keeping computers, printers.

MODEL	SPECIFICATIONS
Rating & Installation	1250VA & Wall Mount
Input Phase	Single Phase 2 wire 220/230 VAC 50HZ +/-0.1%
Change over me	Less than 10 msec UPS mode/ Less than 40 msec
Power Factor	> 0.8
Battery voltage	> 95%
Total weight	25 kg
Dimensions	450*350*160 mm
IP protection level	IP54
Corrosion-proof Grade	C4H
Wave form and Overload	Pure Sine Wave and 100% Continuous, 110% for 10 min
Working Temp. Range	0-40 °C Cooling Fan ON at 50% of rated load Cooling Fan OFF at 40% of rated load
Display (Imp. Parameters)	LCD display which shows the performance of the inverter (AC mains Voltage, Battery voltage, battery charging status, Load percentage, UPS ON/OFF, Over temperature, Fault, overload etc.
Protectons	Battery low alarm, Overload Protection, Short circuit Protection, Over heating Protection, Overcharge protection, Over discharge protection, Battery deep discharge protection
Indications	AC Mains, Charging, UPS mode, Battery voltage
Alarms	Mains Fail, Overload, Battery low alarm

## 2000VA OFF-GRID SOLAR INVERTER



- Delivers a robust **1600W output**.
- **Inbuilt 25.6V 100Ah LiFePO4 Battery**: With lithium iron phosphate technology, this solar inverter offers a longer cycle life, faster charging, and greater energy efficiency compared to traditional lead-acid batteries.
- Backup Time: Provides **up to 4 hours of backup at a 680W load**, ensuring your essential equipment stays powered during extended outages.
- Home Use: Powers lights, fans, computers, TVs, and routers during outages.
- Office & Commercial Use: Ideal for keeping computers, printers, and other office devices operational.

MODEL	SPECIFICATIONS
Rating & Installation	2000VA & Wall Mount
Input Phase	Single Phase 2 wire 220/230 VAC 50HZ +/-0.1%
Change over me	Less than 10 msec UPS mode/ Less than 40 msec
Power Factor	> 0.8
Battery voltage	> 95%
Total weight	25 kg
Dimensions	450*350*160 mm
IP protection level	IP54
Corrosion-proof Grade	C4H
Wave form and Overload	Pure Sine Wave and 100% Continuous, 110% for 10 min
Working Temp. Range	0-40 °C Cooling Fan ON at 50% of rated load Cooling Fan OFF at 40% of rated load
Display (Imp. Parameters)	LCD display which shows the performance of the inverter (AC mains Voltage, Battery voltage, battery charging status, Load percentage, UPS ON/OFF, Over temperature, Fault, overload etc.
Protectons	Battery low alarm, Overload Protection, Short circuit Protection, Over heating Protection, Overcharge protection, Over discharge protection, Battery deep discharge protection
Indications	AC Mains, Charging, UPS mode, Battery voltage
Alarms	Mains Fail, Overload, Battery low alarm



## 5000VA OFF-GRID SOLAR INVERTER



- Delivers a robust **5000W output**.
- **Inbuilt 25.6V 200Ah LiFePO4 Battery**: With lithium iron phosphate technology, this solar inverter offers a longer cycle life, faster charging, and greater energy efficiency compared to traditional lead-acid batteries.
- Backup Time: Provides **up to 4 hours of backup at a 1280W load**, ensuring your essential equipment stays powered during extended outages.
- Commercial Use: Ideal for keeping computers, printers, and other office devices operational.
- Industrial & Backup Systems: Suitable for small backup power needs in industries or small data centers

MODEL	SPECIFICATIONS
Rating & Installation	5000VA & Wall Mount
Input Phase	Single Phase 2 wire 220/230 VAC 50HZ +/-0.1%
Change over me	Less than 10 msec UPS mode/ Less than 40 msec
Power Factor	> 0.8
Battery voltage	> 95%
Total weight	25 kg
Dimensions	450*350*160 mm
IP protection level	IP54
Corrosion-proof Grade	C4H
Wave form and Overload	Pure Sine Wave and 100% Continuous, 110% for 10 min
Working Temp. Range	0-40 °C Cooling Fan ON at 50% of rated load Cooling Fan OFF at 40% of rated load
Display (Imp. Parameters)	LCD display which shows the performance of the inverter (AC mains Voltage, Battery voltage, battery charging status, Load percentage, UPS ON/OFF, Over temperature, Fault, overload etc.
Protectons	Battery low alarm, Overload Protection, Short circuit Protection, Over heating Protection, Overcharge protection, Over discharge protection, Battery deep discharge protection
Indications	AC Mains, Charging, UPS mode, Battery voltage
Alarms	Mains Fail, Overload, Battery low alarm

**LITHIUM BATTERIES**


MODEL	VOLTAGE (V)	CAPACITY (AH)	ENERGY (Wh)	MAXIMUM DISCHARGE CURRENT(A)	DIMENSION (mm)	WEIGHT (kg)
12/6	12.8	6	76.8	6	150*65*95	0.9
12/12	12.8	12	153.6	12	151*98*95	1.5
12/18	12.8	18	230.4	18	181*77*167	2.5
12/24	12.8	24	307.2	24	195*130*155	3
12/30	12.8	30	384	30	195*135*170	4
12/36	12.8	36	460.8	36	195*135*195	4.5
12/42	12.8	42	537.6	42	230*138*150	5
12/48	12.8	48	614.4	48	230*138*170	5.5
12/54	12.8	54	691.2	54	230*140*195	6
12/60	12.8	60	768	60	300*175*218	6.5
12/80	12.8	80	1024	80	315*238*220	9
12/100	12.8	100	1280	100	345*238*220	11
12/150	12.8	154	1920	154	485*170*245	18
12/200	12.8	200	2560	200	520*238*218	22
25/100	25.6	100	2560	100	520*240*220	23
25/200	25.6	200	5120	200	520*267*220	42
25/300	25.6	300	7680	300	620*330*220	64

- 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.





## 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.



NEW ENERGY SOLUTION

# 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





# Client Testimonials

**EnerTech UPS Pvt  
Ltd, Pirangut, Pune**

"We bought New Energy Solution wall mount inverter with inbuilt battery. We were very happy with the manner and professionalism in which the project was undertaken especially as the installation was carried out in a very high production period for the site."

**Kaushik Deshpande (CEO)**

**PowerTech Energy  
Solutions,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."

**SWAPNIL GAIKWAD (Energy Efficiency and Safety Consulting)**

**Prosumers Solar  
Pvt Ltd,Wakad  
Pune**

"New Energy Solution makes going solar easy. They provide straightforward facts about the best system for your needs without a big sales pitch. Their professional team addresses all your concerns and is clearly knowledgeable."

**Virendra Bhagwat (Co Founder)**

**Sanjay Electricals,  
Pune**

" We were wowed with the benefits of Li-ion, and New Energy Solution batteries totally met our expectations."

**Sanjay Jain (CEO)**

**Urja Vision, Pune**

" We had an extremely pleasant experience with them. Simple, responsive, informative, and brilliantly executed. Highly recommended if you are shopping for solar."

**Sujith Kannothe (Director)**

**Oriana Power  
Limited,Delhi**

"New Energy Solution did everything they said they would do, within the timeline they proposed. There were no surprises or add-ons to deal with, which I greatly appreciated. Responses to my questions/concerns was always ,timely, and professional."

**Arvind Kr Sharma (General Manager Business Development)**

**Grandway traders,  
Delhi**

"Very happy to work with New Energy Solution. I am getting all the required support from the company to serve my customer in a better way. The product quality is perfect and after sales service is worth appreciating."

**Vaibhhav Sethi(CEO)**



NEW ENERGY SOLUTION

# Get In Touch

## Last Longer, Perform Better

with New Energy Solution  
Lithium Compact Batteries

Contact Us :



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www.reallygreatsite.com



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VISIT OUR SITE