



Orion
SYSTEMS

LIFT BATTERY BACKUP SYSTEM



COMMON CAUSES OF ELECTRICITY FAILURE

About Us

Orion Systems was established in 1986 and has steadily built itself to be a leading Lift Battery Backup System manufacturer. Growth has been steady, backed by technical expertise & a commitment to quality.

Orion believes *"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution; it represents the wise choice of many alternatives"*

The finest end-product is assured by the finest inputs-proven technology, production techniques and quality assurance. All critical raw materials are sourced from branded Indian & Foreign suppliers and corporations.

All this would not have been possible without the patronage and support of our customers. It is the end users we must thank & Orion pledges to make every effort to supply its customers with the highest possible quality products at best possible prices.

Lift Battery Backup System

Introduction to Lift Battery Backup System

Electricity plays a very important part in our life. In fact it can be said that electricity is the backbone of development. It has made things so much easier for humans. Lights, fans, kitchens, lifts, industries, malls.....everything needs electricity.

India is fast becoming a major superpower. But unfortunately we don't have enough electricity generation units. This has led to major power cuts thus affecting production & leading to discomfort to people.

In order to cope up with situations like this Orion Systems was formed in 1985 & has been giving service to thousands of customers. We have a range of products suitable for Homes, Industries, Offices, Hospitals & Lifts.

Imagine a situation wherein you are traveling inside a Lift & the power fails. First you have to get someone's attention. After that you need expert help to open the Lift. Now if the Lift has a AUTO DOOR it becomes even impossible to call anyone. In developed countries it is mandatory to use some Power Backup for Lifts. Even in India it is being made mandatory to use some backup for lifts.

Initially heavy loads like motors, of Lifts or Elevators, were usually run on Diesel Generators. The major drawbacks in Diesel Generators were :

- ▶ High Capital Cost
- ▶ High Running Cost
- ▶ Smoke & Noise
- ▶ Government Permissions
- ▶ Space

Looking at all these drawbacks Orion Systems has developed the product Lift Battery Backup System. This product has been developed essentially for CONTINUOUS RUNNING OF LIFTS. In case of MAINS FAILURE, Lift Battery Backup System ensures that there is no break in Power Supply & the Lift continues to run as if nothing happened. The Common Lights & Water Pumps can also be operated on this. The System is always alert & has the intelligence to sense problems like Mains Failure, Phase Fail, Phase Reversal, Short Circuit, Battery Low, Overload & Battery High.

Functioning of Lift Battery Backup System

- When Mains electricity supply is present the load of LIFT, COMMON LIGHTS & WATER PUMPS run on their respective meters.
- The batteries are kept on charging mode.
- When the Mains electricity supply fails Lift Battery Backup System senses it & uses power from the storage batteries. It supplies this power to the load.
- When the Mains electricity supply resumes again the load is switched over to their respective meters while Lift Battery Backup System starts charging the batteries again.
- All of this switching process takes place in a couple of seconds. NO MANUAL HELP IS REQUIRED FOR THIS. THIS IS AN AUTOMATIC PROCESS.



Noiseless



Automatic



Smokeless



Environment Friendly



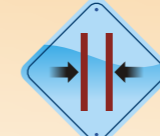
Low Maintenance



Low Operating Cost



Long Life



Less Space Required

under 1 roof
Lift Battery Backup System,
Batteries and After Sales Services

Technical Specifications

Model	Paradigm 3000-Paradigm 90000 depending on load
Rating	3KVA to 90KVA
Technology	IGBT
Input Voltage Window	415V +/- 20%, 50Hz
Output Voltage	415V +/- 5%
Output Frequency	50Hz +/- 1Hz
Inverter Efficiency	>85-90% depending on DC voltage
Acoustic Noise	<45Db at 1 meter
Battery Voltage	72VDC to 360VDC depending on load
Backup time	30Min to 10Hrs. at full load.
Type of Batteries	Pasted / Tubular
Recharging time	Minimum 10 Hrs.
Charger	Boost (Optional) & Trickle charger
Indications	a)Mains High (b)Mains On (c)Phase fail (d)Charger on (e)Battery low (f)Battery High (g)Over load (h)Load on mains (i)Load on Inverter.
Protections	Over Voltage / Under Voltage, Overload, Battery Over Voltage / Under Voltage, Short Circuit.

Specifications Of Parts

The following is a list of parts used in Lift Battery Backup System along with the make.

IGBT	:	Mitsubishi / Semikron / Epcos
IGBT Capacitors	:	Alcon
DC Capacitors	:	Alcon
MCB	:	Protex / MDS
Contactors	:	Siemens / L&T
IC's	:	Motorola / Thermax / Mitsubishi or equivalent.
Cabinet	:	Sheet Metal with Powder Coating.



Difference Between Diesel Generator & Emergency Lift Operating System.

	Lift Battery Backup System	Diesel Generator
CAPITAL COST	Cheaper than Diesel Generator	Costlier than Lift Battery Backup System
EXTRA COST	Besides Wiring, Changeover Switches & Contactors no other cost.	Requires Wiring & Changeover Switches along with A.M.F. panel, canopy, exhaust & room.
RUNNING COST	Very low as actual power is utilized from the batteries only when LOAD is operating.	Very high as Generator has to be kept working even if LOAD is operating or not operating.
LIFE	The only thing that needs to be replaced are the batteries after 4 to 6 years. System life might differ anything from 15 to 20 years or more.	If maintained life range is about 15 to 20 years. But has routine expenses like FILTER & OIL REPLACEMENT.
POLLUTION	No Noise or Smoke pollution.	Smoke pollution. Noise can be cut down by use of Canopy.
LEGALITIES	Does not require Government permissions.	Requires permissions from S.E.B., POLLUTION BOARD & P.W.D.
SPACE	Very less space required. Can even fit below the staircase.	Requires at least 100 Sq. Ft.
OPERATION	Fully Automatic. No manual help required.	Changeover can be Automatic by using AMF panel. But manual help required for filling diesel.



Some of our esteemed clients

Nashik

Janaki Constructions	Rishiraj Developers	Sumangal Developers
Deepak Builders	Thakker Developers	Karda Constructions
Siddhi Builders & Developers	United Builders	Mittal Developers
Gayatri Constructions	Renuka Buildcon	Vimal Constructions
Anand Bhakti Sankul (AMC)	Anand Mall (AMC)	Sanklecha Garden Estate (AMC)
Rahul Estate		

Pune

Amrut Runwal Group	Angal Builders	Anutej Associates
Bal Developers	Behere Babar Bhangadiya	Behere Builders
Bhagwan Palav & Sons	Bhansali Associates	D.Y. Gokhale
Deshpande Dixit Associates	Dreams Builders	Espee Builders
Gaikwad Gore Associates	K.Raheja Corporation	Kumar Builders
Tanaya Developers	Nirmitee Developers	P.B.Constructions
Pandit Javdekar Associates	Paranjape Schemes	Parmar Group
Polekar Harhare Associates	Prasun Builders	Prestige Builders
Rainbow Developers	Rajeev Khinwsara	Ramsukh Properties
Raviraj Bokadia Associates	Raviraj Dighe Associates	Riswadkar Associates
Runwal Builders	S K Builder	Suarana Bothra Associates
Swojas Associates	Tambe & Tambe Developers	United Builders
Vascon Builders	Yash Developers	Yugal Construction

Mumbai

Lodha Group	Kabra Group	Dynamic Associates
Vikas Corporation	Damji Shamji & Co.	Mahadev Constructions
Paradise Builders	Creative Enterprises	E.V. Homes
Proviso Builders	Army Welfare Society	Sagar Darshan CHS
Sun City Builders	Duratech Builders	Sanghoi Brothers
Neminath Construction	Kalsha Builders	Rajesh Builders
Janhavi Constructions	Vardhaman Complex, Mulund	Sarovar Darshan, Thane

Installations





LIFT BATTERY BACKUP SYSTEM

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Lift Battery Backup System | Home UPS | Online UPS | Sine Wave Inverters | Lead Acid Batteries