

Kevin DSP Sine Wave "ALBS"

Automatic Lift Backup Systems
(Three Phase Inverters)

- 4 KVA
- 5 KVA
- 6 KVA
- 8 KVA
- 10 KVA
- 12 KVA
- 15 KVA
- 20 KVA
- 25 KVA
- 30 KVA
- 40 KVA
- 50 KVA
- 60 KVA
- 70 KVA
- 80 KVA
- 90 KVA
- 100 KVA



Kevin ALBS – Automatic Lift Backup System, is a three phase DSP Sine Wave Inverter designed to generate 3 Phase - 4 Wire OUT PUT to support Lift/Elevators during utility failure. In addition to this, important loads like staircase, parking, compound & common lighting & security system can be run through this innovative product.

KEVIN ALBS is a unique combination of DSP Sine Wave three phase inverter, storage battery charger and an electronics change over module. The charger is an isolated boost-converter which provides Constant Voltage & Constant Current to charge the battery bank whenever the utility supply is available.

The inverter provides 3 Phase - 4 Wire AC Voltage to run lift & other three phase loads, utilizing the energy stored in battery bank. The inverter is customised to handle high 'in-rush' current capable of driving motor loads such as Elevators (Lift), Water Pumps, Fire Pumps etc.

Kevin ALBS offers comprehensive solution for the most critical applications & incorporates an array of outstanding user friendly features keeping in mind the day-to-day needs and long term technical and commercial considerations.

Salient Features

- State of art MOSFET/IGBT based PWM technology to Increase Crest Factor Tolerance & Dynamic Stability
- Auto Sense Intelligent Control Smart Charger
- High performance voltage and current regulation with DSP control
- Electronic change over, hence better reliability
- Surge load capacity up to 300%
- Quiet operation of AC motors as well as the other Inductive loads unlike that with modified Sine Wave Inverters
- Very Low Total Harmonic Distortion < 3%
- Wide input voltage range
- All necessary Protections like Short Circuit, Over Temp., Battery Low/High, Mains MCB Tripped etc. with comprehensive display

Applications

- For providing reliable power back-up for Lifts / Elevators
- As a major power supply source for Water Pumps, Fire Pumps & other 3 Phase critical motorised equipment
- Petrol / Diesel Dispensing (Filling) Machines
- Tread Mills & other Health Equipment in Homes/Gyms
- Major Power Back up source in Corporate Offices as well as Call Centres
- Computers & peripherals / Office Equipment like, Scanners, Printers, Fax Machines etc.
- Emergency & Mobile Power Systems
- Air Conditioners and all Compressor Based Applications like Water Coolers, Bottle Coolers, Ice Cream Parlours etc.



Why ALBS is Better than DG Set

Kevin Automatic Lift Back Up System

- Automatic Control
- Low Capital Investment per KVA
- No extra accessories panel, acoustic cover etc required
- Battery utilizes power only when the load is applied
- Noiseless operation
- Environment friendly
- Compact i.e. space required is less
- Operational cost fixed during the battery life span.
- No fuel storage license required
- Built-in protection like Overload, Short-Circuit, Over Voltage, Regulated Voltage & Frequency
- Built-in emergency landing facility
- Low maintenance cost
- Ease of handling without any hazard/spillage

DG Set

- Manual Control.
- High Capital Cost Per KVA
- Additional cost for AMF Panel, acoustic cover etc.
- Diesel consumption irrespective of load
- High acoustic noise
- Air and Sound Pollution
- Relatively larger area required
- Variable on account of fluctuating fuel cost
- Fuel storage license required
- No such built-in protection as standard feature
- Emergency landing facility not available
- High cost of maintenance
- Problems due to spillage/handling of diesel & consequent fire hazard etc.

Why KEVIN ALBS is Better than other Inverters?

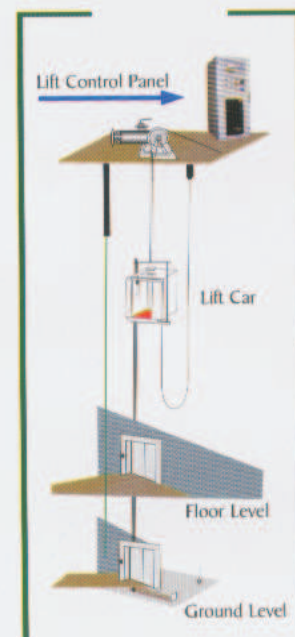
Other Lift / Three Phase Inverters

- Use Electro-Mechanical contactor for change-over which creates sparks, hence poor reliability & less life
- Low end Micro-controller based design, so the control is poor/sluggish
- No Automatic load sensing
- Very bulky & complex design, difficult to service

Kevin ALBSs

- Use SCR based Solid State Static Switches, highly responsive to change-over & almost zero failure
- High End DSP based design. Fast control
- Automatic load sensing. Will stop in Door Open condition at the time of Low Battery Protection
- Compact & simple design, so easy to service

How it works



Technical Specifications*

Description	4KVA	5KVA	6KVA	8KVA	10KVA	12KVA	15KVA	20KVA	25KVA	30KVA	40KVA - 70KVA	70KVA - 100KVA
Back-up Mode												
Output Wave Form	Pure Sine Wave											
Nominal Battery Voltage	72V DC	72V DC 96V DC 180V DC	96V DC 180V DC	180V DC	180V DC 360V DC	180V DC 240V DC 360V DC	180V DC 276V DC 360V DC	276V DC 360V DC	360V DC	360V DC	360V DC	360V DC
Output Power Factor	0.8											
O/P Voltage (N-L)	230V±2.5V AC											
Max. No Load Batt. Current	0.9A±0.2A											
Frequency	50Hz±1.0Hz											
Total Harmonic Distortion	<3%											
O/P Voltage (L-L)	400V±2.5V AC											
Full Load O/P Current/ Phase	5.8A±0.5A	7.3A±0.5A	8.7A±0.5A	12A±0.5A	14A±0.5A	17A±0.5A	21.5A±0.5A	23.5A±0.5A	29.5A±0.5A	34.9A±0.5A	-----	-----
Low Battery Indication	10.5V +/-0.2V DC Per Battery (12V DC Each)											
Mains Mode												
Input Voltage Range (N-L)	140V to 280V AC±10V AC											
Input Voltage Range (L-L)	242V to 484V AC±10V AC											
Max. Charging Current	10A±1A											
Boost Charging Voltage	14.2V +/-0.2V DC Per Battery (12V DC Each)											
Trickle Charging Voltage	13.7V +/-0.2V DC Per Battery (12V DC Each)											
For Three Phase Inverter												
Change over time (Mains to Battery)	<= 40milisec											
Change over time (Battery to Mains)	<= 10milisec											
For Three Phase ALBS												
Change Over Time (Mains to Battery)	<= 30sec											
Change Over Time (Battery to Mains)	<= 10milisec											
Protections												
Protections	Output Not Ok, Battery Voltage Low (4 Auto Retries), Over Load (6 Auto Retries), Battery Over Charge, Over Temperature, Short Circuit, Mains MCB Tripped											
Displays												
Displays	Welcome Message, Capacity, Output Voltage, Output Frequency, Load Percentage, Input Voltage and Frequency, Battery Charging, Battery Voltage, All Protections											
Environmental Parameters												
Operating Temperature	0 Deg. - 45 Deg.											
Acoustic Noise at 1 Mtr.	< 45 dB											
Relative Humidity	Max 95% non - Condensing											
Thermal Management	Integrated Cooling (Fan & Heat Sink)											
Weight and Dimensions												
With Packaging LxWxH in mm	680x500x780	680x500x780	680x500x780	680x500x780	700x500x780	700x500x780	700x500x780	860x630x950	860x630x950	860x630x950	720x990x1450	-----
Without Packaging LxWxH in mm	540x340x660	540x340x660	540x340x660	540x340x660	540x340x660	540x340x660	540x340x660	700x450x840	700x450x840	700x450x840	585x800x1290	-----
Net Weight	72 Kg	78 Kg	88 Kg	92 Kg	92 Kg	107 Kg	107 Kg	173 Kg	217 Kg	205 Kg	-----	-----
Gross Weight	83 Kg	89 Kg	94 Kg	105 Kg	124 Kg	117 Kg	134 Kg	220 Kg	232 Kg	245 Kg	-----	-----

MEMBER



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