SINE- WAVE INVERTER
INDUSTRIAL (Three Phase)

House of Green Energy

DSP Sine Wave Three Phase Inverters (ALBS) Series

Lento DSP sine Wave Automotive Lift Backup System (ALBS) is specifically designed to address the requirements of running lift motors with high torque. These ALBS output 3 phase supply that is similar to the 4 wire mains 3 phase supply and can be effortlessly switched in with a simple electronics change over in case of power failure to power lifts and elevators. The same ALBS can be used as a power source for staircase, parking, compound and common lighting as well as a power source for security systems. Lento ALBS feature DSP based three phases sine wave output inverter module, battery charger, electronic change over and extra heavy duty components to handle high starting torque currents drawn by lift motors, pump sets and air conditioners.

Applications

- For Providing reliable power back-up for Life/Elevators.
- As a major power supply source for water Pumps, Fire pumps & other 3 phase critical motorized equipment.
- Petrol/Diesel Dispensing (Filling) Machines.
- Tread mills & other Health Equipment in Home/Gyms.
- Major Power back Up source in corporate Offices as well as Call Centres.
- Computers & peripherals/Office Equipment like Scanners, Printers, and Fax Machines etc.
- Emergency & Mobile Power Systems.
- Air Conditioners and all compressor Based applications like Water Cooler, Bottle Coolers, Ice Cream Parlours etc.

10 KVA
12 KVA
15 KVA
20 KVA
25 KVA
30 KVA
40 KVA

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Technical Specifications

Model Name		10KVA/180V-360V	15KVA/180-360V	20KVA/240V	20KVA/360V	25KVA/360V	30KVA/360V	40KVA/360V
		0.9±0.2A	0.9±0.2A	0.9±0.2A	0.9±0.2A	0.9±0.2A	0.9±0.2A	0.9±0.2A
O/P No Load Voltage	R	230±5V	230±5V	230±5V	230±5V	230±5V	230±5V	230±5V
	Y	230±5V	230±5V	230±5V	230±5V	230±5V	230±5V	230±5V
	B	230±5V	230±5V	230±5V	230±5V	230±5V	230±5V	230±5V
O/P Full Load Voltage	R	230±7%	230±7%	230±7%	230±7%	230±7%	230±7%	230±7%
	Y	230±7%	230±7%	230±7%	230±7%	230±7%	230±7%	230±7%
	B	230±7%	230±7%	230±7%	230±7%	230±7%	230±7%	230±7%
Full Load Battery Current	A	25±2A	37±2A	70±2A	49±2A	60±2A	106±2A	72±2A
Full Load O/P Current	R	11.6±0.5A	17.5±0.5A	23±0.5A	23±0.5A	29±0.5A	34.5±0.5A	46.5±0.5A
	Y	11.6±0.5A	17.5±0.5A	23±0.5A	23±0.5A	29±0.5A	34.5±0.5A	46.5±0.5A
	B	11.6±0.5A	17.5±0.5A	23±0.5A	23±0.5A	29±0.5A	34.5±0.5A	46.5±0.5A
Overload Retry		6Times	6Times	6Times	6Times	6Times	6Times	6Times
OutPut Frequency (Inverter Mode)	R	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz
	Y	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz
	B	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz	50.0 ± 0.5 Hz
OutPut Sine Wave (Inverter)	R	Should be OK	Should be OK	Should be OK	Should be OK	Should be OK	Should be OK	Should be OK
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MAINS MODE

OutPut Sine Wave (Mains)	V	Should be OK	Should be OK	Should be OK	Should be OK	Should be OK	Should be OK	Should be OK
Mains Low Cut	V	180±10V	180±10V	180±10V	180±10V	180±10V	180±10V	180±10V
Recovery	R	190±10V	190±10V	190±10V	190±10V	190±10V	190±10V	190±10V
Mains High Cut	R	280±10V	280±10V	280±10V	280±10V	280±10V	280±10V	280±10V
Recovery	R	270±10V	270±10V	270±10V	270±10V	270±10V	270±10V	270±10V
Change Over Time (Mains to Inverter)		< 40ms	< 40ms	< 40ms	< 40ms	< 40ms	< 40ms	< 40ms
Change Over Time (Inverter to Mains)		<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
Batt Low Buzzer (V/Batt)		10.8V ±0.2V	10.8V ±0.2V	10.8V ±0.2V	10.8V ±0.2V	10.8V ±0.2V	10.8V ±0.2V	10.8V ±0.2V
Batt Low Cut (V/Batt)		10.10V ±0.2V	10.10V ±0.2V	10.10V ±0.2V	10.10V ±0.2V	10.10V ±0.2V	10.10V ±0.2V	10.10V ±0.2V
Batt Low Retry		4times	4times	4times	4times	4times	4times	4times
Short Circuit, Retry		NO	NO	NO	NO	NO	NO	NO
Permanent Short Circuit Protection		Should be OK	Should be OK	Should be OK	Should be OK	Should be OK	Should be OK	Should be OK
Max. Charging Current		10±2A	10±2A	10±2A	10±2A	10±2A	10±2A	10±2A
Boost Charging Voltage ±0.2V/Batt		14.2±0.2V/Batt	14.2±0.2V/Batt	14.2±0.2V/Batt	14.2±0.2V/Batt	14.2±0.2V/Batt	14.2±0.2V/Batt	14.2±0.2V/Batt
Trickle Charging Voltage ±0.2V/Batt		13.6±0.2V/Batt	13.6±0.2V/Batt	13.6±0.2V/Batt	13.6±0.2V/Batt	13.6±0.2V/Batt	13.6±0.2V/Batt	13.6±0.2V/Batt
Protection	Output Not Ok ,Battery Voltage Low, Over Load ,Battery Over Charge ,Over Temparture , Short Circuit ,Mains MCB Trip							
Displays	Welcome Message ,Capacity ,Output Voltgae ,Output Frequncy,Load Percentage ,input Volatge& Frequency ,battery Charging ,Battery volatage, All Protection							

ENVIRONMENTAL PARAMETERS	
Opreting Temperature	0 Deg. - 45 Deg.
Acoustic Noise at 1Mtr	< 45 DB
Relative Humidity	Max 95% Non -Condensing
Thermal Management	Integrated Cooling Fan & Heat Sink

* Charging Current Change on Custmer Dimand

Note: Specification subject to change without prior notice.

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