

RENUTRON POWER SOLUTIONS (I) PVT. LTD.

TECHNICAL SPECIFICATIONS - LIFT BACK UP SYSTEM 25 KVA - 125 KVA (3 ph- 3 ph)

Model	ELOS-25 to ELOS-125	
Capacity	20 KW to 100 KW (Unbalanced Load)	
AC INPUT		
Input voltage	415 VAC \pm 20 %	
Input Frequency	50 Hz \pm 6 %	
DC CHARGER		
Battery Voltage	360V	
Rectifier	ATM Technique (Float cum Boost), CVLC	
AC OUTPUT BATTERY MODE		
Technology	IGBT Based PWM Inverter using Micro Controller	
Output voltage	400 VAC \pm 1 %	
Output Frequency	50 Hz \pm 0.5 %	
Output Power factor	0.8 to 1 lag	
Output waveform	PWM Sine wave	
Phase Displacement	$120^\circ \pm 1^\circ$	
Harmonic Distortion	Less than 3 % on Linear Load	
Transient Recovery	. \pm 4 % from 0 to Full load and corrected within 60 msec.	
Crest Factor	4 : 1	
Inverter Efficiency	More than 92 % Depending on DC voltage	
INDICATIONS & ALARMS		
Indications	Mains on, Inverter On, Battery Low, Over Load, Output Under Voltage, Output Over Voltage, DC Over Voltage, I/p Single Phasing / Phase Reversal	
Audible Alarm	Intermittent beep for 30 sec. On mains fail. Battery low pre-alarm at 80 % of Battery discharge. Intermittent Beep for all other Trip Conditions	
AERD - AUTO EMERGENCY RESCUE DEVICE (Optional)		
AERD	Micro controller based Wi-fi Digital Scrolling with Voice messeging - To Display the status - Lift is running on Mains, Lift on Battery, Battery % charge remaining, Battery Low Pre-alarm, Battery Low - DO NOT USE LIFT, Mains Supply Single Phasing- Call Electricity Board, Mains Supply Phase Reversal - Call Electrician, Project Developed By, RENUTRON Service Helpline No.	
METERING (Optional)		
Digital Metering and Fault Indications	Micro controller based Digital Scrolling LCD to Display - I/P voltage , O/P Voltage, Load Current, Load %, Charging Current, Battery Voltage, % Battery Charge. Fault indications – Mains Off, Inverter Off, O/p under voltage / over voltage, Battery Low pre-alarm & Trip, DC Over voltage, Output Overload, I/p Single Phasing / Phase Reversal	
PROTECTIONS		
Protections	Output Overload, Output short circuit, Battery low trip, DC over voltage, Output under voltage / over voltage, Input under voltage / over voltage	
GENERAL		
Change Over	Electro mechanical internal for single Lift, External for multiple Lifts. Static Switch Optional	
Audible Noise	Less Than 50 dB at 1 meter	
Design ambient	0-50 ^o C	
Relative Humidity	Max. 95 % Non Condensing	
Enclosure	M.S. Powder coated with castor wheels	
Dimensions in mm (LxWxH)	25 to 50 KVA - 1100x500x850	60 to 125 KVA - 1400x500x1200

NOTE: Specifications subject to change due to continuous improvements in the product.