

**RENUTRON POWER SOLUTIONS (I) PVT. LTD.**

**TECHNICAL SPECIFICATIONS - LIFT BACK UP SYSTEM 6 KVA - 20 KVA (3 ph- 3 ph)**

Model	ELOS-06 to ELOS-20		
Capacity	4.8 KW to 16 KW (Balanced / Unbalanced Load)		
<b>AC INPUT</b>			
Input voltage	415 VAC $\pm$ 20 %		
Input Frequency	50 Hz $\pm$ 6 %		
<b>DC CHARGER</b>			
Battery Voltage	6 KVA - 72V - 144V, 8 KVA - 96V - 180V, 12 to 20 KVA - 144V - 360V		
Rectifier	ATM Technique (Float cum Boost), CVLC		
<b>AC OUTPUT BATTERY MODE</b>			
Technology	Mosfet /IGBT Based PWM Inverter using Micro Controller		
Output voltage	400 VAC $\pm$ 3 %		
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	85 % - 93% Depending on DC voltage		
<b>INDICATIONS &amp; ALARMS</b>			
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		
<b>AERD - AUTO EMERGENCY RESCUE DEVICE (Optional)</b>			
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.		
<b>METERING (Optional)</b>			
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. <b>Fault indications</b> – 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		
<b>PROTECTIONS</b>			
Protections	Output Overload, Output short circuit, Battery low trip, DC over voltage, Output under voltage / over voltage, Input under voltage / over voltage		
<b>GENERAL</b>			
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 <sup>o</sup> C		
Relative Humidity	Max. 95 % Non Condensing		
Enclosure	M.S. Powder coated with castor wheels		
Dimensions in mm (LxWxH)	6 KVA - 630x370x610	8 KVA - 12 KVA 770x420x710	15 KVA - 20 KVA 980x470x810

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