ELEVATOR BACK-UP SYSTEM

Solution that we have pioneered for nearly 15 years.

Nepal Power Solution (P). Ltd.

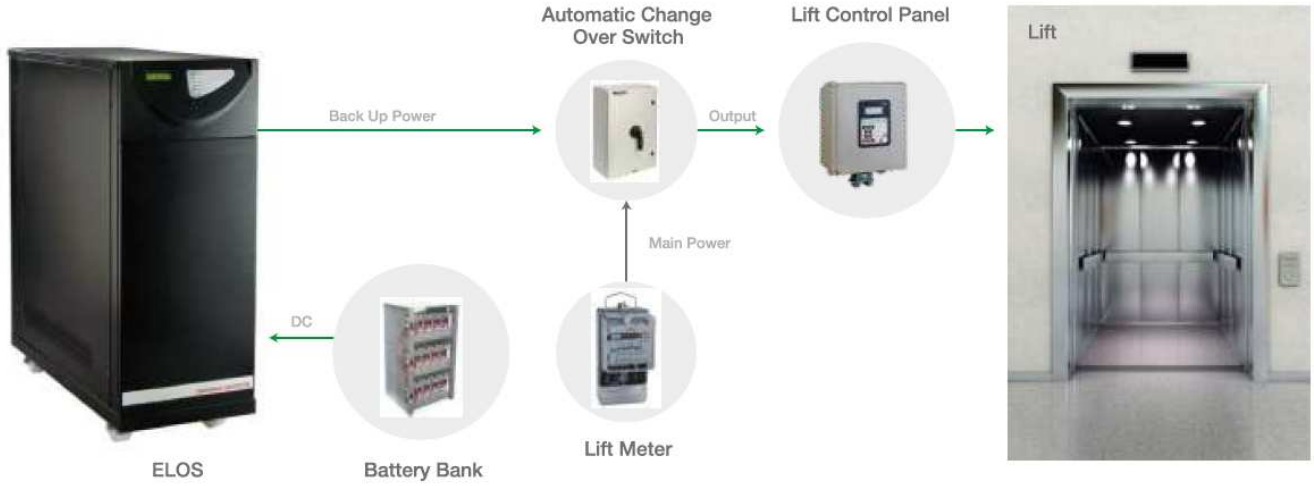
Emergency Lift Operating System

ELOS offers comprehensive solution to most critical application and incorporates an array of outstanding user friendly features, keeping in mind the day-to-day needs and long term technical and commercial viabilities.

Why ELOS is a better option to a DG set?

CONSUL ELOS	DG SET
Fully automatic operation	Manual Operation
Lower capital cost per kVA	High capital cost per kVA
No extra accessories cost	Additional Cost for auto change over, AMF panels, Acoustic cover etc.
Battery power utilized only when the load is applied	Diesel consumption irrespective of load
Noiseless	High noise level
Environmental friendly	Air pollution
Very low operating cost	High fuel cost
Low maintenance cost	High maintenance cost
Can be installed in a small footprint area	Relatively larger area required
Operational cost x during the battery life span	Variable on account of uctuating fuel cost
No fuel storage license required	Fuel storage license required
Built-in protections like overload, short circuit, over-voltage, regulated voltage and frequency	No such built-in protections as standard feature
Built-in emergency landing facility for single lift application	Not available

How ELOS Works?



Technical Specifications

System Rating (KVA)	6KVA	8KVA	10KVA	15KVA	20KVA
Main Input					
Input Supply Phases	3 Phase 4 Wire				
Nominal Voltage & Voltage Range	415VAC(+15%,-15%),50Hz				
Battery					
Battery Voltage	72	96	180	240	240
Max. Battery Charging Current	10A	10A	10A	10A	10A
Inverter					
Switching Element	IGBT				
Control	32 bit DSP Controlled				
Nominal Output Voltage	400/415VAC L-L				
Output Supply Phases	3Phase 4 Wire				
Power Factor	0.8				
Output Waveform	Sine Wave				
Nominal Frequency (Hz)	50Hz				
Load Power Factor	0.6 lag to 1 (Within KVA and KW rating)				
Voltage regulation	± 2%				
Voltage Stability in dynamic condition	Complies with IEC/EN 62040-3,Class 1				
Output voltage distortion with 100% linear load	< 2%				
Overload at nominal output voltage for 10 Sec	150%				
Crest Factor	3:1				
Noise @ 1 meter (dBA ± 2dBA)	< 60dBA				
Protection degree with open doors	IP20				
Cooling	Forced Air				
Colour	Black				
Dimension (WxDxH) mm	350 x 740 x 700mm (6KVA to 10kVA)			350 x 1040 x 910mm (15KVA to 20kVA)	
Galvanic Isolation	Inbuilt isolation transformer at inverter output				
Protection	Under/Over voltage for Input, Output, Battery, Output overload, short circuit, Over temperature, MCCB & Surge protection at Input, Output, & Battery path, Wound Component OT				
Display Parameter	1. Battery - Voltage, current 2. Mains - Voltage, Frequency 3. Inverter - Voltage, Current, Frequency Inverter Heat Sink Temperature, Power(kVA/kW)				
Indications	Battery low, Mains ON, Inverter ON				
Environment					
Location	Indoor (Free from corrosive gases & conductive dust)				
Temperature Operating (°C)	0-40				
Max. Relative humidity @ 25°C (non condensing) (%)	Up to 95				
Max. Altitude above sea level without derating	1000 M (For higher altitude complies with IEC/EN 62040-3)				
Standard Compliance					
Testing Standard	Complies to IEC62040-3				
Communication					
	Modbus (Optional)				

□ Specications are subject to change without prior notice due to constant improvement in design & technology □ Custom models available on request