Emergency Lift Operation by

Emergency Lift Operation by Alternative Power Source





LUMINOUS

"During power transition from mains to backup system, there is a jerk in lifts which can be scary. Overcome this issue with the help of
Luminous Liftverter and avoid the need to purchase the UPS systems anymore.
Liftverter provides a smooth transition with absolutely no jerk during the power transition and a seamless experience for people inside the lift. Now, the lifts are safer during the power failure with Luminous Lift Inverter range."

LUMINOUS

LIFTVERTER is an intelligent device which is grid synchronized,

offering a break-free transfer from mains mode to inverter mode, or vice versa, in addition to the three sources of grid, battery and DG.





LIFTVERTER is equipped with MODBUS communication protocol for remote monitoring

The real-time status of the system helps the customer as well as the user to verify the performance and status. The System comes with built-in capability to notify the

passengers whenever there is a power failure or a low battery condition through the display panel and/or through a voice-over.

Thus, the passenger would have the option to exit at the nearest landing. This will ensure that the passengers are not trapped inside the lift car. In case of a system failure, the lift maintenance agency will get a notification before the customer raises a ticket. Liftverter is designed to take the loads of emergency lights, CCTV, or any other single-phase loads.

LIFTVERTER provides longer battery backup and life

In the case of regen drive, the back EMF would be fed back into the local grid during mains mode, and during mains failure, this power will be utilized to recharge the battery, eliminating the need for a return energy dump circuit. This will ensure that the battery delivers a significantly longer life and runtime as compared to online UPS or asynchronised Inverter system.

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SKUs	LIFTVERTER 5	LIFTVERTER 5.5	LIFTVERTER 8	LIFTVERTER 12	LIFTVERTER 15	LIFTVERTER 20	LIFTVERTER 30		
System Rating (KVA/kW)	7.5KVA/	7.5KVA/	II.5KVA/	I5KVA/	20KVA/	30KVA/	40KVA/		
	5.25kW	5.25kW	8kW	10.5KW	I4KW	2IKW	28kW		
Recommended Motor Capacity* (HP)	~5	~5	~8	~ 2	~15	~20	~30		
GRID									
Input supply		415 VAC. 3 Phases. 4 wire (+15%-15%)							
Input Frequency				50Hz ±6%	× /				
BATTERY									
Battery Voltage	48V	72V	120V	180V	240V	240V	360V		
Charger type				Bi-Directional					
Battery Charging current			Batter	y Charging Currer	it upto 30A				
	10A	10A	16A	21A	28A	43A	57A		
Input PE during Grid Charging	10/1	>0.9	9 when inverter lo	aded from 50% to	100% of Inverter ca	nacity	5//(
Battery Type			Ti	ibular/SMF/Lithium	n ion*	puery			
Recommended Tubular Battery	150Ah & Above								
,	for tubular			100Ah & A	Above for tubular				
INVERTER									
Switching Element			1007	IOPT		1007	1007		
5	SEMITOP MOSFET	SEMITOP MOSFET	IGB1	IGBT	IGBT	IGBT	IGBT		
Output waveform	D ()	D C		D 0:	D (;	D C:	D C		
	Pure Sine wave	Pure Sine wave	Pure Sine wave	Pure Sine wave	Pure Sine wave	Pure Sine wave	Pure Sine wave		
Output Nominal Voltage				415VAC ±2%,3	Ph				
Load Power Factor		0.6 lag to 1 (within kVA and KW rating)							
Inverter Peak Efficiency				90%					
Vthd with 100% linear load			Mains mode:	Same as Grid /Inv	erter mode:<5%				
Galvanic isolation		Inbuilt isolation transformer at inverter output							
Voltage stability in Dynamic condition	Complies with IEC/EN 62040-3,Class I								
Overload Conditions			110% for 60s	ec /125% for 10se	c /150% for 1 sec				
Regenerative Drive Application		Suitable for R	egenerative Drive	(Lift Drive Regen I	Power capacity confir	mation require)			
	I.5 times of Inverter Capacity								
DG Compatibility			1.5	times of Inverter (Capacity				
DG Compatibility Change Over Time			1.5	times of Inverter (<3 millisecond	Capacity s				
DG Compatibility Change Over Time PROTECTION			1.5	times of Inverter (<3 millisecond	Capacity s				
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LUMINOUS

LIFTVERTER offers significant advantages as compared to Online UPS

LIFTVERTER enables substantial savings in energy consumption

For eg. a 10kW motor demands a 15kVA online UPS, whereas LIFTVERTER can meet that requirement with a 10kW system, offering the customers significant cost benefit over UPS. Online UPS being a double-conversion technology, the power losses at input and output would be significant during the operation. Online UPS will have an additional power loss of 10% over LIFTVERT-ER. Considering the cost difference between online UPS and Liftverter, coupled with the energy savings, the payback period shall be less than 15 months.

LIFTVERTER has a significantly longer life-cycle

Since online UPS works 24x7x365, the life-cycle would be significantly low as compared to LIFTVERTER as they would come into operation only when power fails. The housekeeping power required to keep the internal circuit on would also be negligible as compared to online UPS.

Comparison of different solutions for lift backup

FEATURES	ARD	3 PH INVERTER	3 PH ONLINE UPS	LIFTVERTER
Automatic Functions	Yes	Yes	Yes	Yes
Uninterrupted Transfer of Load	No	No	Yes	Yes
Jerk-Free Operation	No	No	Yes	Yes
Blackout-Free Operation in Lift Car	No	Yes	Yes	Yes
Long Autonomy	No	No	Yes	Yes
IGB Based PFC Charger	No	No	Yes	Yes
MODBUS Communication	No	No	Yes	Yes
Li-ion Battery Compatibility	No	No	No	Yes*
Master Data Interface for Remote Monitoring	No	No	No	Yes
Generation Loss	8%	10%	15%	5%
Option to incorporate & Function	No	No	No	Yes
тсо	Low	High	Very High	Very Low

*Only Luminous Recommended Li-Ion battery. For others, advance confirmation from Luminous is required before applying the battery.







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