



A PRODUCT OF ISO 9001:2008 COMPANY

INVERTER - UPS

EMERGENCY LIFT OPERATING SYSTEM

FEATURES

- Sine wave pulse width modulation (SPWM).
- IGBT inverter design.
- High Inrush capability to handle Lift during Startup.
- 100% Pure, Reliable and Regulated Power.
- Unbalanced Load Handling Capability.
- Runs heavy duty appliances/equipments.
- Extended overload capability (upto 300%).
- Start up without Mains (Cold start).
- Generator compatible.
- Low running cost.
- Extended power backup time.
- Built in Galvanic Isolation Transformer.



**THREE PHASE
SINEWAVE INVERTER
CAPACITY 5 KVA TO 50 KVA**

SPECIFICATIONS :

Type	3 Phase Input - 3 Phase Output
Series	POWER SERIES
Capacity	5 KVA TO 50 KVA
INPUT	
No. of Phases	3 Phase-4 Wire
Voltage Range	310 V - 480 Volts AC
Input Frequency Range	45 to 55 Hz.
OUTPUT	
Load PF Range	0.8 lagging
Phase	3 Phase-4 Wire
Output Waveform	Pure Sine Wave
Voltage	400 V \pm 2 %
Frequency	50Hz \pm 0.1%
Load Crest Factor	> 4:1
Output Voltage THD	<=3% on Linear Load
Over Load Capacity	110% for 2 Minutes
Transient Recovery	\pm 4% under full load change and corrected within 5 cycles
Phase Displacement	120° \pm 1°
Over Load Capacity	105% continuous, 300% for 60 sec
BY PASS	
Maintenance By Pass	Available
BATTERIES	
No. of 12V Batteries	15 up to 15 kva - 30 from 20 to 50 kva
Voltage	180 VDC - 360 VDC
Battery Charging current	1 Amp to 10 Amp
Battery Recommendation	From 26 Ah to 200 Ah
GENERAL	
Indication	LCD panel & LED
Protection	Output Overload & Short circuit, Output under & Overvoltage DC Under & Overvoltage, Single Phasing & Phase unbalance (for 3 -Ph Input only)
Cooling	Forced Air Cooling
Inverter Efficiency	95%
Operating Temperature	0°C to 50°C
Operating Humidity	Max 95%, Non-condensing
Accoustic Noise	Less than 55 dB at 1 Meter

Comparison chart for 7.5 kva lift ups With 15 kva diesel genset for 3 year

- * These calculations are based on assumption of following parameters.
- * Total running time period = 3 years.
- * 3 % power failure in a year (12 day).
- * Intial investment
- * Running cost
- * service cost
- * depreciation

SR.NO.	PARAMETER	GENSET	LIFT UPS
1	Capital cost	210000	165000
2	Running cost	12 days X 3 years X 24 hrs. X 2.5 ltr/hr X 46 rs./ltr. Diesel = 99360 Rs.	Batt. Replacement charge after 3 years approx. 42000 Total saving 55 %
3	Output voltage & Frequency	Fluctuates	Constant
4	THD	> 10%	< 3 %
5	Crest factor	NIL	4:01
6	Maintenance	✓	X
7	Noise	✓	X
8	Man power	✓	X
9	Air polution	✓	X
10	Automatic	X	✓
11	Repairing time	1 to 2 days	2 hrs.
12	Physical	large space req.	small space reqd.

* Battery and diesel prices are vary time to time

UMA POWERTRONICS PVT. LTD.

MFRS OF : ONLINE UPS, LINE INTRACTIVE UPS,
DIGITAL HOME UPS, INVERTER, SERVO STABLIZER, CVT

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