

Lift
USER MANUAL
Salient Features

- + Micro Controller/DSP Based smart controller design.
- + Pure Sine Wave Output.
- + Electronic Overload and Short Circuit Protection.
- + Easily Serviceable.
- + Auto Reset Feature.
- + Mains Input Voltage Range Selection.
- + Multi Stage Charging.
- + Audio Visual Indications (Status & Fault).

ISO 9001:2008

Introduction

Dear Customer,

Thank you for purchasing Olympus Power product. Olympus Power Pvt. Ltd Make Advance MICRO CONTROLLER based LIFT INVERTER products have been carefully designed to operate in both industrial and commercial environments. In commercial applications, our LIFT INVERTER products fit according to aesthetically into the environment and perform reliably for years.



General Safety & Precautions

- + Review the following safety precautions to avoid injury and to prevent damage to the LIFT INVERTER or any other products connected to it. To avoid potential hazard use this product only as specified.
- + Service shall be done ONLY by qualified / authorized personnel!
- + To Avoid Fire or Personal Injury, never use Automobiles Batteries with your UPS. They are not suitable for these applications.
- + Always check the water level in batteries (For flooded batteries only). This will keep your batteries in good condition and also enhance its life.



Do's

Provide proper ventilation!

- + Install the power LIFT INVERTER in a location that is well ventilated so that the heat it generates can be dissipated easily.
- + Do check the water level of your battery for every 3 months as this is very much essential to keep the battery in good condition.
- + Keep your batteries rust-free, good lubricating oil or petrol can be beneficial to lubricate your battery terminals at least once every month.
- + Check that your LIFT INVERTER is earthed properly.
- + Always mount the LIFT INVERTER in a cool and dry location
- + While wiring your Power LIFT INVERTER use Standard and insulated Wires, poor Wiring may lead to Short Circuit that may even lead to fire.



Don'ts

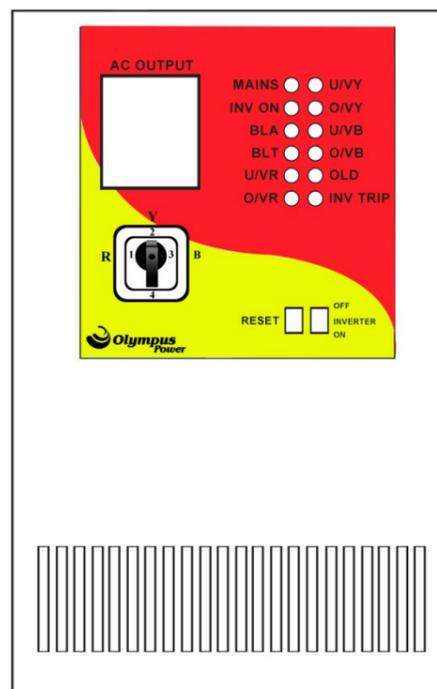
- + Do not operate without covers!
 - + Do not operate LIFT INVERTER with covers removed.
- + Avoid exposed circuitry!
 - + Do not touch exposed connections and components when powered.
- + Do not operate with suspected failures!
 - + If you suspect that the LIFT INVERTER is damaged, have it inspected by qualified personnel.

Do not operate in an explosive atmosphere!

Do not touch the LIFT INVERTER terminals while the power is applied to the LIFT INVERTER even if the LIFT INVERTER stops.

Front Panel Description

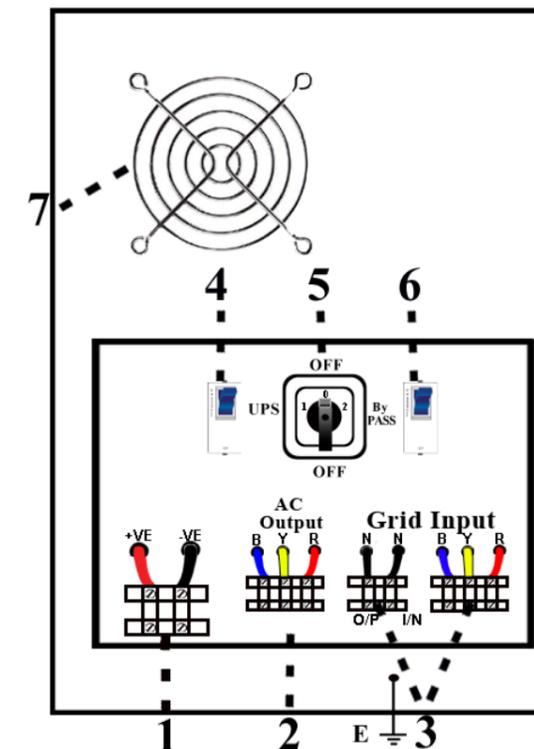
This section describes the front panel of the UPS.



The following indications and switches are provided for user interaction :

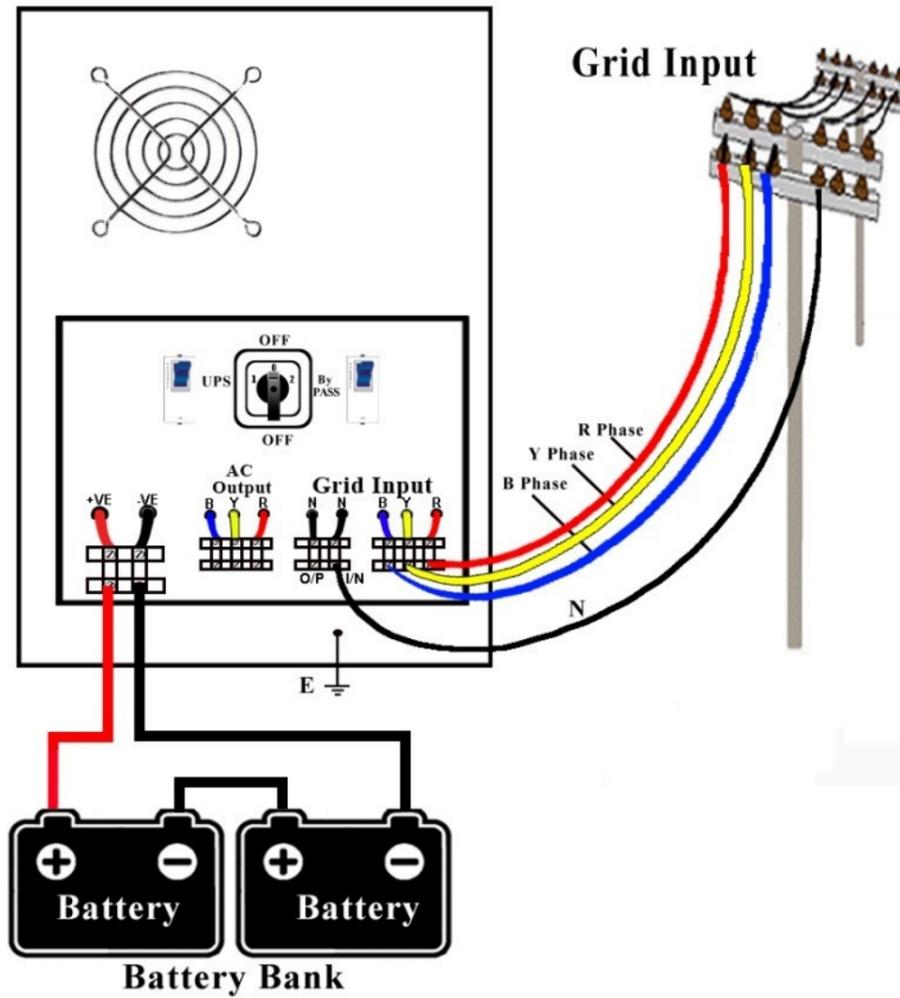
- + Mains: The mains supply is available
- + INV ON: The unit is switched on
- + BLA : Indicates battery will be low after some time(Battery pre alarm)
- + U/VR: Inverter output is tripped due to low battery voltage
- + O/VR: Input R-phase voltage is below low cut-off voltage.
- + U/VY: Input R-phase voltage is above upper cut-off voltage.
- + O/VY: Input Y-phase voltage is below low cut-off voltage.
- + U/VB: Input Y-phase voltage is above upper cut-off voltage.
- + O/VB: Input B-phase voltage is below low cut-off voltage.
- + OLD: Input B-phase voltage is above upper cut-off voltage.
- + INV TRIP: Load connected is more than rated capacity.
- + INV TRIP: Inverter output is tripped due to fault condition.
- + RESET : This switch is provided to reset the UPS.
- + INVETER: The ON / OFF switch for UPS.

Description of Back Panel



1. BATT. Terminal Block :-
This is provided at back panel to connect battery to UPS
2. OUTPUT Terminal Block :-
This is provided at back panel to connect load to UPS
3. INPUT Terminal Block :-
This is provided at back panel to connect mains I/P to UPS
4. BATT. MCB :-
This is provided at back panel to isolate battery from UPS.
5. ROTARY SWITCH :-
This is provided at back panel as maintenance bypass switch which has following 3 options:
 - + OFF: The output of unit is disconnected from load.
 - + BYPASS: The load is connected to mains supply.
 - + UPS: The output of unit is connected to load. This is normal condition.
6. INPUT MCB :-
This is provided at back panel to isolate mains I/P from UPS.
7. FAN :-
This is provided at back panel to provide ventilation to UPS.

Installation & Wiring



Easy Installation

- ✦ Check for mechanical and electrical damages during transit.
- ✦ Mount LIFT INVERTER in suitable, clean, dry and ventilated place.
- ✦ Ensure that the front panel switch, back panel switch and all MCBs are in OFF position.
- ✦ Check polarity of battery and connect wires according to correct polarity.
- ✦ Now LCD is ON and it shows "SWITCH OFF/ AWAY MODE"
- ✦ Connect mains I/P to LIFT INVERTER and switch on mains I/P MCB.
- ✦ Wait for 2 minutes and then switch on battery MCB.
- ✦ Check o/p voltage and connect o/p terminal to the load.
- ✦ Switch ON the LIFT INVERTER and o/p MCB. Check if LIFT INVERTER works properly.

Technical Specification

Input	
Input Voltage Range	380V ~ 480V AC
Output	
Output Voltage	415V \pm 2%
Output AC waveform	Pure Sine Wave
General Features	
LCD/LEDs Indications	Mains ON, Inverter ON, Battery Low Trip, Mains Fail, Battery Low Alarm / as per customer's specification
Battery	
Max Charging Current (when battery is fully discharge)	10A \pm 2amp
SPECIAL FEATURES	
Cold Start (start-up in battery mode during a power failure)	Cold - start operation supported

Sr. No	Model	Output Capacity	Power (watts)	DC System Voltage	Battery
1	LF7.572	7.5(KVA)	6000W	72V	6
2	LF10120	10(KVA)	8000W	120V	10
3	LF10180	10(KVA)	8000W	180V	15
4	LF15180	15(KVA)	12000W	180V	15
5	LF25360	25(KVA)	20000W	360V	30

Warranty Conditions

Warranty and liability claims for injuries and damage shall not be accepted if they are due to one or more of the following causes: Improper use of the UPS

- ✦ Improper installation, commissioning, operation and maintenance
- ✦ Operation of the LIFT INVERTER with defective and/or non-operational safety
- ✦ And protective equipment
- ✦ Failure to observe the information in the user manual regarding installation, Commissioning, operation and maintenance
- ✦ Unauthorized modifications
- ✦ Inadequate monitoring of wearing parts
- ✦ Improper repairs
- ✦ Emergencies caused by external influence or force majeure



Model No- _____

Serial No- _____

Customer Name- _____

Address- _____

Date of Purchase _____

Dealer Stamp

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