

USER MANUAL

(IPS)

Installation

There are two kind of connection depending on charging requirement

1. Mains charging ON
2. Mains charging OFF

1. Mains charging ON:-

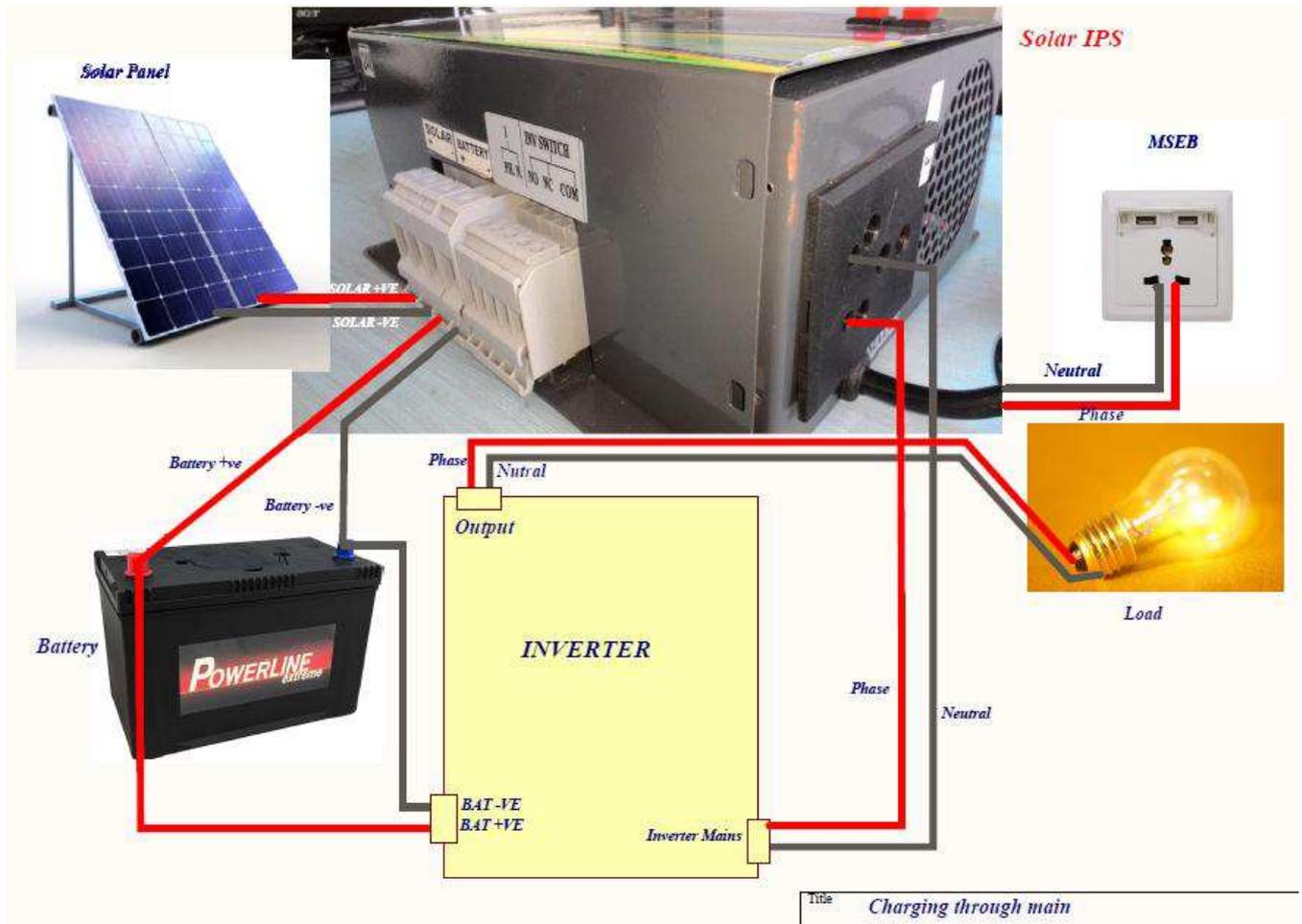
1. Connect batteries in series or in parallel and check battery voltage matches the system battery voltage.
2. Switch OFF the inverter.
3. First connect battery negative to inverter and IPS and then connect battery positive to both
4. First connect solar negative to IPS and then connect solar positive.
5. Connect inverter mains to the output of IPS.
6. Connect IPS mains cord in the MSEB socket.
7. Connect LOAD wires in the output of inverter.
8. Switch ON the inverter.

- **Advantages of this type of connection:**

- 1) Battery will charge from both solar and grid power.
- 2) In case of power cut, due to fully charged battery you will get proper required backup.
- 3) Inverter switch is not required to be connected to IPS.

- **Disadvantages of this type of connection:**

- 1) As the battery will get charged from grid also, we will not have fully solar based operation which in turn will not save the required amount of grid power.



2. Mains charging OFF:-

1. Connect batteries in series or in parallel and check battery voltage matches the system battery voltage.
2. Switch OFF the inverter.
3. First connect battery negative to inverter and IPS and then connect battery positive to both
4. First connect solar negative to IPS and then connect solar positive.
5. Connect inverter output in phase and neutral of IPS (WEGA connector) by external mains cord
6. Plug IPS mains cord in MSEA socket.
7. Connect load wires in the IPS output socket.

8. Take the two wires from the inverter switch and connect in NO and COM connector of IPS.
9. Keep the inverter mains cord open

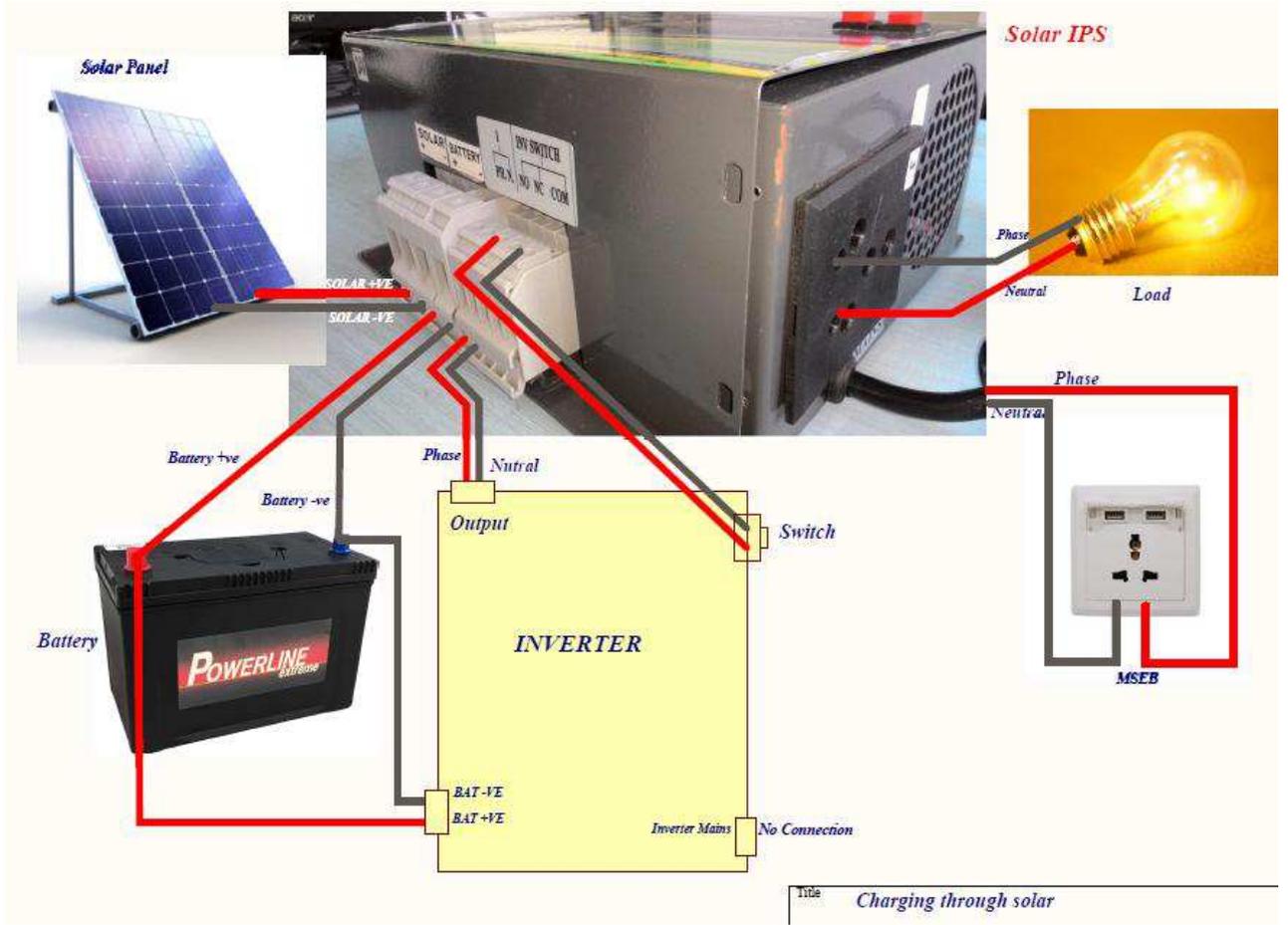
- **Advantages of this type of connection:**

- 1) Battery will never charge from the grid.
- 2) The inverter on/off switch is also operated automatically which will not have on state loss of inverter.
- 3) Battery will only get charged from the solar power.
- 4) Useful where there is no load shading or regular power cut.

- **Disadvantages of this type of connection:**

- 1) As the batteries are only getting charged from solar, in winter or rainy season when the solar power reduce to less than half, you will not get the required backup when there is power cut.
- 2) If you did not connect the inverter switch connections you have to keep the inverter in always ON condition which will cause the ON state or no load loss of the inverter to discharge the batteries slowly.

Note: If you are using the POWERLINE inverter you will have mains charger on/off option. So you can externally on or off the mains charging, then connection diagram type 1 is more preferable. Otherwise if there is no regular power cut at your location then you should go with connection diagram type 2.



IPS SETTINGS

1. Connect battery negative and then battery positive.
2. Connect solar negative and then solar positive.
3. Connect mains.
4. Press key 1(**SET**) and key2 (**ENT**) simultaneously until display shows "**SET?**"
5. Press SET. Display shows "**L11.5**" (lower shifting cut-off) .settable by key SET.

Range - (10.8 To 12.5)

6. Press ENT. Display shows "**H13.8**" (higher shifting cut-off) .settable by key SET.

Range - (13.5 To 14)

7. Press ENT. Display shows "**b14.2**" (battery charging cut-off) .settable by key SET.

Range - (13.5 To 14.5)

8. Press ENT. Display shows "**V020**" (for dusk to dawn function). Don't change.
9. Press ENT. Display shows "**dd-y**" (for dusk to dawn function). Don't change.
10. Press ENT. Display shows "**ACCP**" (accept settings).
11. Press ENT. Display shows "**CAL**" (calibration mode).
12. Press ENT. Display shows "**ON**". (Switch on unit).
13. Press ENT.

- *If you don't want to change settings then just connect battery, solar and mains .An unit will be automatically ON after 30 seconds.*

Warranty card

Warranty registration card

Customer information	Name : Address : Mobile no : E-mail : Zip code :
Product information	Name : Model no : Serial no : Invoice no : Purchase date :

Stamp and signature of authorized dealer

Warranty period months(12/24/36)

Customer signature

Warranty statement

To insure a delightful product experience vitronics recommends reading the user guide carefully and contacting our customer care helpline to understand the product warranty period and conditions. In the unlikely event that your vitronics product requires any support, please call our customer care number **020-26962548** or **09404731535** , or email us at service@vitronicscontrols.com .please visit our website www.vitronicscontrols.com for further support details.

Vitronics warrants that the product at the time of its original purchase is free of defects in material and workmanship.

Terms and conditions

- 1. The warranty is given to the original purchaser ("customer") of the product.*
- 2. For the entire warranty period vitronics controls or its authorized dealer will be at their discretion, without any charges repair/replace a defective part. Repair or replacement may involve the use of same or equivalent reconditioned unit. Vitronics will return the repaired system or can replace with another same or equivalent product to the customer in full working conditions. All replaced faulty parts or components will become the property of vitronics controls*
- 3. For any product repaired or replace during the warranty period, the period of replaced product shall continue to be within warranty period for the remaining time of the original warranty period of original product.*
- 4. The warranty will be automatically terminate on the expiry of warranty period, even in case of the product not being in use for specified period*
- 5. The warranty will be invalidated if defects arising in company's opinion by reason of accident, rough handling, exposure to any kind of liquid(water, sweat, oils etc) exposure to moisture, dampness or exposure to extreme thermal or environmental conditions, neglect improper installation (if not taken by company or it's authorized dealer) fire flood or act of god or any other natural calamities or any other unauthorized repairs or done or carried out will have to be born by the purchaser*
- 6. The company will not be held liable in any conditions for any loss or injury or damage caused to line or property or death and disability caused in any form of life for any reason whatsoever*
- 7. The warranty will not apply if the original seals are found broken or tampered*
- 8. Customer will get site service during warranty period from where he has originally purchased the system. In case if the customer has purchased system along with batteries from Mfgr. then & then the Mfgr. will provide on site service during warranty period only with ref. to the details mentioned in original invoice. In all other conditions at actual charges will be applicable.*
- 9. For any claim under the warranty is subject to notifications to vitronics controls or vitronics controls authorized dealer for the alleged defect within a reasonable time of it's occurrence and in no event not later then expiry of warranty period.*
- 10. All claims will be settled in pune jurisdiction only.*