

**SOLAR**

**AMAZE**



**PCU MPPT**

**3KVA - 36V**

**24**  
MONTHS

**WARRANTY**

**USER MANUAL**

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## 1. INTRODUCTION

Dear Customer,

Solar Power is the best alternate source of renewable energy and solar power is a never ending & abundant resource. In India the Solar insolation is almost similar all across the country. With technology advancement solar power is becoming affordable and available to a larger section of the society. Amaze Solar range is designed in such a way that you will have the access to this solar energy at an affordable price with less dependency on grid supply. Amaze Solar device range is having an artificial intelligence built in to harness solar energy & reduce your electricity bill where grid supply is also available. Solar device consumes solar energy as the first preference over Grid Supply. Unlike conventional fossil fuels solar panels don't emit CO<sub>2</sub> emissions which results into reduction in global warming and provides a cleaner environment.

### प्रिय ग्राहक,

सौर ऊर्जा अक्षय ऊर्जा का सबसे अच्छा वैकल्पिक स्रोत है और यह कभी न खत्म होने वाला प्रचुर मात्रा में उपलब्ध संसाधन है। भारत में सौर ऊर्जा का स्तर पूरे देश भर में लगभग समान है। प्रौद्योगिकी की प्रगति के साथ सौर ऊर्जा निरंतर सस्ती और लोकप्रिय हो रही है। अमेज सॉलर उपकरण श्रृंखला में सौर ऊर्जा और ग्रिड ऊर्जा के बीच सही समन्वय स्थापित किया गया है ताकि आपकी व्यवसायिक ऊर्जा की खपत कम से कम हो।

अमेज सॉलर उपकरण उच्च मांग अनुप्रयोगों में सौर ऊर्जा का अधिकतम उपयोग कर विद्युत बिल में बचत करता है। अमेज सॉलर उपकरण उपलब्ध सौर ऊर्जा का उपयोग कर ग्रिड ऊर्जा की बचत करता है। पारंपरिक ऊर्जा स्रोतों की तुलना में सॉलर स्रोत  $\infty$  उत्सर्जन नहीं करते हैं परिणाम स्वरूप स्वच्छ वातावरण प्रदान करते हैं।

## 2. SAFETY GUIDELINES please go through these guidelines before connecting the UPS.

**1) Always connect the UPS to a two-pole, three-wire grounding Mains socket. The socket must be connected to appropriately protected branch of the Mains (fuse/circuit breaker). Connection to any other type of socket may result in a shock hazard.**

यूपीएस सदैव दो पोल तथा तीन तार ग्राउंडिंग मेन्स साकेट के साथ जोड़िये। साकेट को मेन्स की उचित सुरक्षित ब्रॉच (फ्यूज/सर्किट ब्रेकर) के साथ जोड़ना चाहिए। किसी और प्रकार के साकेट से जोड़ने से बिजली का झटका लगने की संभावना रहती है।

**2) To Switch off the UPS output in an emergency, use the switch on front panel to switch the UPS off. Disconnect the power cord from the Mains and remove atleast one battery connector.**

आपातकालीन अवस्था में यूपीएस की आउटपुट बन्द करने के लिए सामने वाला बटन बन्द करें। पावर के तार को मेन्स से अलग कर दें। बैटरी का कम से कम एक कनेक्टर अलग कर दें।

**3) Avoid Installing the UPS in an excessively humid place or where there is water. Care must be taken to ensure that the UPS is kept away from heat emitting appliances such as a heater, blower, oven etc. The unit must also be placed in a manner that it avoids exposure to direct sunlight. The place of installation should be well-ventilated and easily accessible for servicing.**

यूपीएस ऐसे स्थान पर न रखें जहाँ पानी हो या अत्यधिक नमी हो। इस बात का विशेष ध्यान रखा जाए कि यूपीएस को उन उपकरणों से दूर रखा जाए जिससे गर्म ताप निकलती है, जैसे हीटर, ब्लोअर और ओवन इत्यादि। यूपीएस को ऐसे स्थान पर नहीं लगाना चाहिए जहाँ सीधी धूप आती हो। यूपीएस रखने की जगह हवादार और सर्विसिंग के लिए सरलता से पहुँचने योग्य होनी चाहिए।

**4) Foreign particles and water must not enter the UPS. Always ensure that no objects containing a liquid are ever kept near the unit.**

बाहरी कोई वस्तु या पानी यूपीएस के अन्दर नहीं जाना चाहिए। इस बात को ध्यान रखना चाहिए कि गीला या तरल पदार्थ यूपीएस के पास नहीं रखना चाहिए।

**5) Don't allow any spark near battery. Be sure not to come in contact with battery acid by any means.**

बैटरी के निकट कोई चिंगारी न आने दें। बैटरी के तेजाब से किसी भी तरह के सम्पर्क से बचे।

**6) Place the battery compartment as near as possible to the UPS.**

बैटरी को यूपीएस के नजदीक ही लगाएँ।

**7) Always switch off the UPS and disconnect mains when disconnecting the battery.**

बैटरी को हटाने से पहले मेन्स को अवश्य बंद करें।

**8) Do not open the UPS there are dangerous high voltages inside even when power is off. Contact the company service engineer only if it is not working properly.**

यूपीएस को खोल न खोलें और सहायता के लिए सर्विस इंजीनियर की मदद लें।

## DO'S & DON'TS

### Do's related to UPS

- ✓ Unplug and switch off the UPS before touching or cleaning the surfaces.
- ✓ Unplug the UPS from the wall outlet during a lightning storm.

### Do's related to battery

- ✓ Wear safety gloves and goggles.
- ✓ Use battery grade water only for battery refilling.
- ✓ Install battery in proper ventilated area.
- ✓ Apply petroleum jelly to terminals of batteries.
- ✓ Place battery horizontally & handle with care.
- ✓ Keep out of reach of children.
- ✓ Connect correct polarity of wires from UPS with battery.

### Don'ts related to UPS

- ✗ Don't block the side ventilation slots by cloth or other material it may result in fire hazard.
- ✗ Don't place the UPS near radiation or heat source.
- ✗ Don't install the UPS near kitchen sink, laundry, wash bowl, bath tub.

### Don'ts related to battery

- ✗ Don't add impure or mineral water in battery.
- ✗ Don't add acid to the battery as it can cause damage.
- ✗ Don't keep near a moisture area or in direct sunlight.
- ✗ Don't keep the cell caps loose or open.
- ✗ Don't increase the length of battery wire.
- ✗ Don't place the battery at height.
- ✗ Never short the terminals of the battery.
- ✗ Don't over fill the battery cells.
- ✗ Keep away flammable things to the battery.
- ✗ Don't dispose of batteries in fire.
- ✗ Don't open or mutilate batteries.
- ✗ Don't keep tools or metal parts on top of batteries.



### Do's related to battery

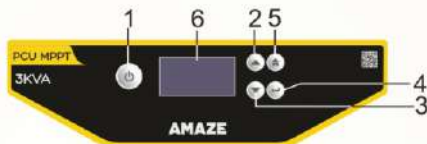
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## 3. PHYSICAL DESCRIPTION:

### 3.1 The front panel display indicators & ON-OFF Switch



**1. UPS-ON / RESET SWITCH:-** This switch changes UPS status which is displayed through LCD display. If Mains is available, load & charging would continue even under switch OFF condition. This switch also works as reset in tandem with ON/OFF switch.

यह स्विच यूपीएस की स्थिति को बदलता है जो कि LCD डिस्प्ले से दर्शायी जाती है। मेन्स की उपस्थिति में चार्जिंग स्विच ऑफ स्थिति में भी निरन्तर होती रहेगी। यह स्विच ऑन / ऑफ के अलावा रीसेट का भी काम करता है।

**2. UP Scroll Switch:-** This switch increase the settable parameter.

यह स्विच सेटटेबल पैरामीटर को बढ़ाता है।

**3. Down Scroll Switch:-** This switch decrease the settable parameter.

यह स्विच सेटटेबल पैरामीटर को घटाता है।

**Note: press for 2 seconds both UP & Down scroll switch to go into setting mode.**

नोट: सेटिंग मोड में जाने के लिए एक साथ अप और डाउन स्कॉल स्विच को 2 सेकेंड दबाएँ।

a) Mode Selection: This switch selects as per the UPS/ECO mode. UPS mode is selected when computer is to be run.

मोड सलेक्टर: यह स्विच यूपीएस / ईको मोड के अनुसार सलेक्ट करता है। कम्प्यूटर चलाने पर यूपीएस मोड सलेक्ट करे।

| Mode | Switch Selection | Voltage Range    |
|------|------------------|------------------|
| ECO  | ECO              | 110 - 280V ± 10V |
| UPS  | UPS              | 180 - 260V ± 5V  |

By default, unit is in ECO mode when battery is reset.

सामान्यतः जब बैटरी रीसेट होती है तो यूनित ईको मोड में होती है।

b) Battery Selection: This selects as per battery type. Battery Ah setting 100 to 200Ah. To increase the value press UP Scroll switch and for decrease the value press DOWN Scroll switch. After selecting the value press Enter switch.

**बैटरी सलेक्टर:** यह बैटरी के प्रकार के अनुसार सलेक्ट करता है। बैटरी ए एच बैट्यू 100 से 200 ए एच है। ए एच बैट्यू बढ़ाने के लिए अप स्कॉल और घटाने के लिए डाउन स्कॉल करे। ए एच बैट्यू चुनने के बाद एन्टर मोड से सेट करे।

| Battery Type | Position |
|--------------|----------|
| Flat         | FLAT     |
| Tubular      | TUB      |
| SMF          | SMF      |

c) No Load Option Selection: This switch selects enabling - disabling of no load shut down option. It will be by default in disable mode & can be enable - disable by Down & UP key respectively.

**नो लोड ऑप्शन सलेक्टर:** यह स्विच नो लोड में यूनित बंद होने के ऑप्शन को सक्षम / अक्षम करता है। डिफॉल्ट रूप से यह अक्षम रहेगा। डाउन और अप स्कॉल से सक्षम / अक्षम को चुना जा सकता है।

|       |                  |
|-------|------------------|
| nL:En | Enable Shutdown  |
| nL:dl | Disable Shutdown |

d) Priority Selection: This icon is used to select priority settings namely SLB, SBL.

इस आइकन का उपयोग सलेक्ट प्रिऑरिटी सेटिंग्स SLB, SBL को चुनने के लिए किया जाता है।

e) Line Current Selection: This icon is used to enable or disable charging from Mains(grid).

इस आइकन का उपयोग 144ग्रिड/12 से चार्ज को सक्षम / अक्षम करने के लिए किया जाता है।

**4. Enter Switch:-** This switch sets the value in settable mode.

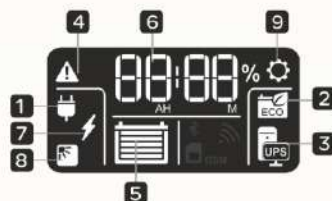
यह स्विच सेटटेबल मोड में वैल्यू सेट करता है।

**5. Home Switch:-** Escape from particular setting mode.

इस स्विच के माध्यम से विशेष सेटिंग मोड से बाहर निकला जा सकता है।

**6. LCD Display:-** Displays various parameters on the screen.

स्क्रीन पर विभिन्न पैरामीटर प्रदर्शित करता है।



**1. Mains ON :** When mains input is available, then the respective symbol will glow.  
मेन्स इनपुट रहने पर संबंधित सिम्बल चमकेगा।



**2. Mode Selector :**  
**a) ECO Mode :** When UPS is working in ECO mode, this symbol will glow.  
यूपीएस ईको मोड में काम कर रहा हो तो यह सिम्बल चमकेगा।



**3. Mode Selector :**  
**b) UPS :** When UPS is working in UPS mode, this symbol will glow.  
जब यूपीएस यूपीएस मोड में काम कर रहा हो तो यह सिम्बल चमकेगा।



**4. Fault Indicator :** When any fault is there, this symbol will glow.  
कोई खराबी होगी तो यह सिम्बल चमकेगा।



**5. Battery Discharging Indicator :** It shows the different level of battery discharge status. As per battery discharge level, the bar status shows decreases. Bar rolls down intermittently as per load applied.

यह इसका संकेत है कि बैटरी किस स्तर तक चार्ज है। बैटरी डिस्चार्ज के स्तर के अनुसार बार की क्षमता घटती है। लोड के अनुसार बार रह रह कर नीचे की ओर घूमता है।



**6. Status Display :** During charging and dis-charging, unit display respective time remain (Max time limit - 99Hrs 59Min). It also indicates load percentage. It indicates the following parameters:

चार्ज और डिस्चार्ज के दौरान युनिट डिस्पले संबंधित का समय दिखाया जाता है (अधिकतम समय सीमा - 99घंटे59 मिनट)। यह लोड प्रतिशत भी दर्शाता है। इससे निम्नलिखित खराबियों और उनकी सुरक्षा के संकेत मिलते हैं:

| Condition                    | Description   | Display Icon                      |
|------------------------------|---|-----------------------------------|
| Battery Low Trip             | When battery charge is low                                | Low Battery Icon                  |
| Overload                     | Excess load is applied                                    | Overload Icon                     |
| Wrong Wiring                 | Wrong wiring occurred                                     | Wrong Wiring Icon                 |
| Short Circuit                | Any short-circuit occurred                                | Short Circuit Icon                |
| Over Temperature             | UPS is heated over range                                  | Over Temperature Icon             |
| No Load Shut down            | Load is less than 5% for cont. 11hr.                      | No Load Shut down Icon            |
| Batt. High Voltage Shut down | Battery Voltage   | Batt. High Voltage Shut down Icon |
| Solar Overload               | When power is 110% of specified Solar Power               | Solar Overload Icon               |
| Solar High Voltage           | When Voc of the panel is greater than the specified range | Solar High Voltage Icon           |
| Solar Overtemperature        | Solar Charger is over heated                              | Solar Overtemperature Icon        |

**Note :** Display backlight will OFF after 2 minutes. Display will get reset/ON, when there is mains supply or by setting the all switch.  
नोट : 2 मिनट के बाद डिस्पले बैक लाइट ऑफ हो जाएगा। मेन्स सप्लाई या पॉवर स्विच को रिसेट करने पर डिस्पले रिसेट/ऑन हो जाएगा।



**7. Charging :** It glows when unit is in charging mode.  
यह सिम्बल तब चमकेगा जब युनिट चार्जिंग मोड में हो।



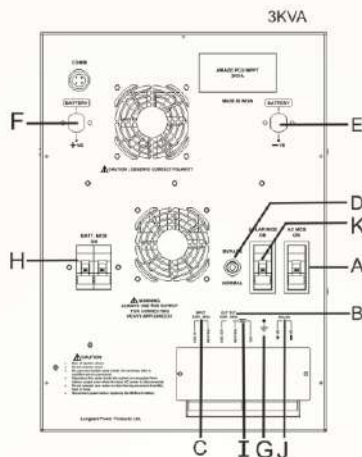
**8. Solar Mode :** It glows when unit is in solar mode.  
यह सिम्बल तब चमकेगा जब युनिट सोलर मोड में होगा।



**9. Setting Mode :** It glows when you selecting the ECO/ UPS, Battery Type or Battery Ah, Solar priority, Mains Mode.

यह सिम्बल तब चमकेगा जब आप ईको / यूपीएस, बैटरी टाइप या बैटरी ए.एच., सोलर प्रीअोरिटी, मेन्स मोड चुनने में।

## 4. Back Panel Description



### A. AC MINIATURE CIRCUIT BREAKER

This is connected at the input of the UPS and will trip in case of short-circuit at output under Mains condition.

यह यूपीएस के इनपुट से जुड़ा है। मेन्स की अवस्था में आउटपुट पर शार्ट सर्किट हो जाए तो यह ट्रिप हो जाएगा।

### B. WAY OUTPUT TERMINAL BLOCK \*

This connector is provided for connecting the output of the UPS to the load.

यह कनेक्टर लोड को यूपीएस के आउटपुट तारों की उचित पोलारिटी से जोड़ने के लिए होता है।

### C. WAY INPUT TERMINAL BLOCK \*

This is used to connect commercial input AC supply to the UPS.

यह कनेक्टर लोड को यूपीएस के ए सी इनपुट तारों की उचित पोलारिटी से जोड़ने के लिए होता है।

\* Recommended Wire Gauge for Input Output & Battery Wiring.

| WIRE GAUGE | INPUT            | OUTPUT           | BATTERY                               | PV WIRE           | TDR (only for 3KVA) |
|------------|------------------|------------------|---------------------------------------|-------------------|---------------------|
| 3KVA-36V   | 6mm <sup>2</sup> | 4mm <sup>2</sup> | 25mm <sup>2</sup> / 16mm <sup>2</sup> | 10mm <sup>2</sup> | 2.5mm <sup>2</sup>  |

### D. BYPASS SWITCH

In case of any fault in the UPS the Bypass switch bypass the UPS portion and allows the Mains to be available at the output being independent of the battery.

यूपीएस के खराब होने की स्थिति में बाईपास स्विच पावर को बिना बैटरी के भी आउटपुट पर दे सकता है।

### E. NEGATIVE BATTERY TERMINAL

The negative end of the battery is connected to this lead.

बैटरी का नेगेटिव सिरा इस लीड से जोड़ने के लिए है।

### F. POSITIVE BATTERY TERMINAL

The positive end of the battery is connected to this lead.

बैटरी की पॉजिटिव सिरा इस लीड से जोड़ने के लिए है।

### G. EARTH

Terminal block for Earth connection.

अर्थ कनेक्शन के लिए टर्मिनल ब्लॉक दिया गया है।

### H. BATTERY MCB

Battery MCB will trip in case of battery reverse connection.

बैटरी एमसीबी बैटरी के विपरीत जोड़ने पर गिर जायेगी।

### I. TDR

Output should be used for loads having high inrush current only.

टीडीआर आउटपुट का प्रयोग हाई इनरश वाले लोड के लिए ही करें।

### J. Terminal Block - PV input

This is provided for connecting PV Panel Input. Connections should be as per polarity marking.

यह पीवी पैनल इनपुट कनेक्ट करने के लिए दिया गया है। कनेक्शन पोल के निशान देख कर करें।

### K. Solar MCB

Used to connect / disconnect PV Array.

पीवी ऐरे को जोड़ने/डिस्कनेक्ट करने के लिए दिया गया है।

## 5. UNPACKING & PLACEMENT

**1. Unpacking:** On receiving the UPS, inspect for any transit damage. The packaging can be saved for future use.

यूपीएस को लेते समय इस बात को सुनिश्चित कर ले कि यूपीएस क्षतिग्रस्त तो नहीं है। पैकिंग को भविष्य में उपयोग के लिए संभाल के रखें

**2. Placement:** UPS shall be kept at a place which is protected from dust, water, temperature and humidity.

यूपीएस को ऐसे जगह पर लगाएँ जो धूल, पानी, ताप और आर्द्रता से सुरक्षित हो।

## 6. INSTALLATION DIAGRAMS

## 1). BATTERY INSTALLATION

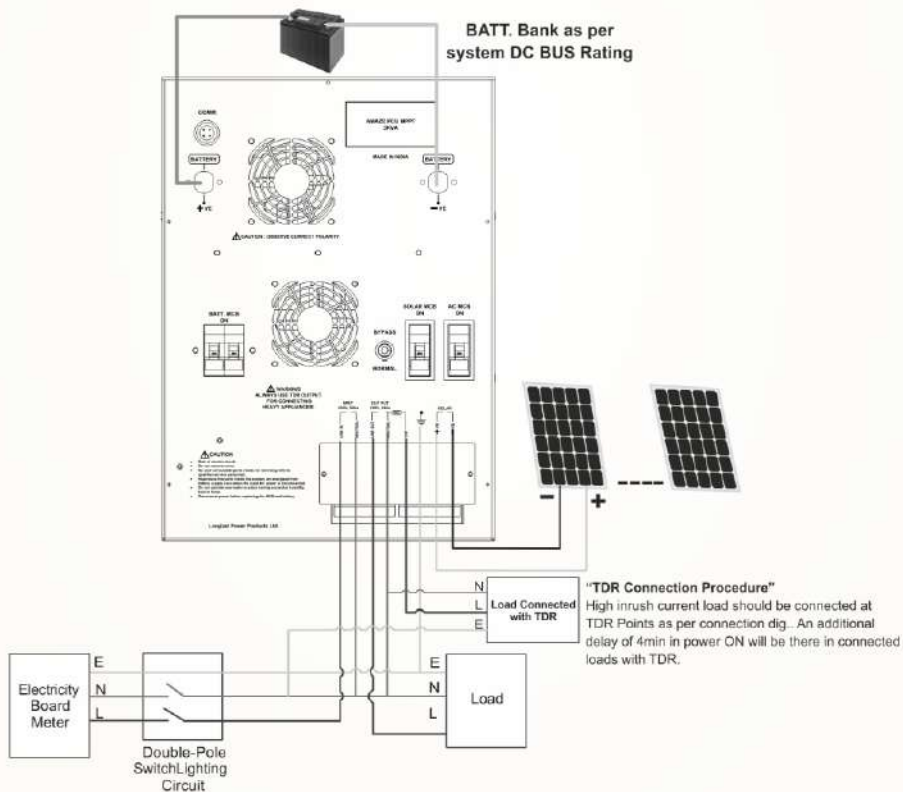
**CAUTION:** Battery polarity must be checked before connections. Wrong polarity connection with UPS will cause Reverse Protection Fuse Blown and may lead to Fire Hazards.

**Installation shall be done by qualified technician.**

- Take precautions while connecting the battery cable to the battery post, avoid short circuit by spanner etc.
- Battery terminals and thimble etc., should be cleaned and properly fastened otherwise it may give false indications of battery charged and low battery trips.

## 2). CONNECTION DIAGRAM OF UPS WITH MAINS & BATTERY

a) SOLAR PCU MPPT 3KVA/36V



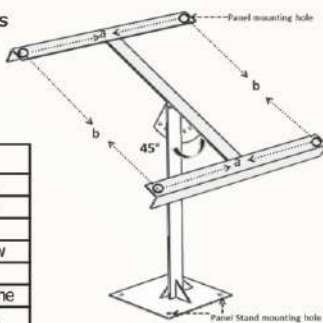


## 7.1 Recommended panel mounting structure for solar panels

सोलर पैनल लगाने के दिशा निर्देश

For a & b dimensions refer to the manual of solar panel.

a और b माप के लिए सोलर पैनल मैनुअल को देखें।



### Always Keep in mind for best performance and safety

|                           |                                  |
|---------------------------|----------------------------------|
| Solar panel direction     | As per geographic location       |
| Panel angle of tilt       | As per geographic location       |
| Panel wire length         | Max. 8 meter                     |
| Panel installation area   | Outdoor. Without any shadow      |
| Panel maintenance         | Regular dusting / Washing        |
| Battery installation area | Well ventilated. Away from flame |
| Wiring and connections    | Periodically check & maintain    |

सर्वश्रेष्ठ प्रदर्शन और सुरक्षा के लिए सदैव निम्न सुझावों को ध्यान में रखें

|                                 |                                      |
|---------------------------------|--------------------------------------|
| सोलर पैनल की दिशा               | भौगोलिक स्थिति के अनुसार             |
| पैनल के कोण का झुकाव            | भौगोलिक स्थिति के अनुसार             |
| पैनल के तार की लंबाई            | अधिकतम 8 मीटर                        |
| पैनल के लगाने/जोड़ने का क्षेत्र | चारदीवारी से बाहर, जहाँ छांव नहीं हो |
| पैनल की देखभाल                  | धूल-मिट्टी की नियमित सफाई/धुलाई      |
| बैटरी के लगाने/रखने का क्षेत्र  | बिल्कुल हवादार। आग से दूर            |
| वायरिंग और कनेक्शन              | नियमित जांच और देखभाल                |

## 7.2 Recommended combination of Solar Panels

सोलर पैनल के अनुशंसित संयोजन

| Panel Wattages | 3KVA/36V                  |                             |
|----------------|---------------------------|-----------------------------|
|                | No. of Series Connections | No. of Parallel Connections |
| 335Wp          | 3                         | 3                           |
| 550Wp          | 3                         | 2                           |



## 8. TROUBLESHOOTING

This section provides with troubleshooting tips to identify and solve most of the common problems that might occur.

इस अनुभाग में समस्या समाधान के सुझाव दिए गए हैं ताकि आप समस्याओं को, जो भविष्य में आ सकती हैं, समझ और समाधान कर सकें।

| PROBLEM   | POSSIBLE CAUSE(S)  | ACTION RECOMMENDED   |
|---|--|--|
| A. The mains supply is normal but...<br>a) The MAINS ON symbol is not displaying on LCD. The UPS is either working on battery or battery has exhausted (BATT.LOW is glowing). | <ul style="list-style-type: none"> <li>Line cord plug is loose.</li> <li>Dead wall socket.</li> <li>Mains input voltage too low and too high.</li> </ul>   | <ul style="list-style-type: none"> <li>Fit the line cord plug properly.</li> <li>Check the socket with any lamp etc.</li> <li>Wait for mains to normalize.</li> </ul>  |
| B. In the battery mode ....<br>a). If the display is showing Battery Low (Lbt)<br>b). Display shows 'otp'.  | <ul style="list-style-type: none"> <li>The battery may have got discharged from recent use.</li> <li>The UPS has tripped due to overheating condition.</li> </ul>                                | <ul style="list-style-type: none"> <li>Recharge the battery after Mains restoration.</li> <li>Call for authorised technician.</li> </ul>   |
| C.a). If the display is showing OVERLOAD (oLd)<br>b). If the display is showing Short Circuit 'Sct'.  | <ul style="list-style-type: none"> <li>The UPS has tripped due to overload condition.</li> <li>The UPS is tripped due to short circuit.</li> </ul>   | <ul style="list-style-type: none"> <li>Reduce the load and turn the reset switch (on the front panel) on/off.</li> <li>Switch off all loads and then turn on load one by one and if 'Sct' takes place again, call for authorised technician.</li> </ul>      |
| D. Backup not satisfactory with PV connected.   | <ul style="list-style-type: none"> <li>PV wire not connected properly in the input terminal.</li> <li>PV panel position not as recommended.</li> <li>PV panel rating is not adequate.</li> </ul> | <ul style="list-style-type: none"> <li>Connect the PV wires in correct terminal with correct polarity as per marking properly.</li> <li>The PV panel should be mounted properly with correct angle of tilt and position.</li> <li>Contact dealer.</li> </ul> |

For any other problem, please contact our authorized service person.

अन्य किसी समस्या के समाधान हेतु हमारे अधिकृत व्यक्ति से संपर्क करें।

## 9. STEPS FOR UPS INSTALLATION:

- To be done by a competent & knowledgeable person.
- Switch OFF the supply to the distribution point to which the UPS is to be connected.
- Check the building wiring. Improper building wiring could result in equipment damage that is not covered in warranty.
- Connect the battery/batteries to UPS as per its correct polarity.
- Keep the front switch of UPS on OFF position.
- Switch ON the front switch & measures the output voltage on output terminal block, if it is as per specification then switch off the UPS.
- Connect the Load wire to the output terminal block located on the rear panel of UPS.
- Switch ON the front Switch of the UPS.
- Gradually put the load on UPS.
- Connect input plug to input terminal block located on the rear panel of UPS in correct polarity.

यूपीएस लगाने के तरीके:

- इंस्टालेशन वस इंजीनियर द्वारा ही करा जाना चाहिए।
- यूपीएस की मेन्स सप्लाय को बंद कर दें।
- वायरिंग की सही से जांच कर लें, गलत वायरिंग यूपीएस की कार्यक्षमता पर असर डाल सकती है।
- बैट्री को यूपीएस के साथ करेक्ट पोलैरिटी में जोड़ें।
- यूपीएस को स्विच ऑफ की स्थिति में ही रखें बैट्री कनेक्ट करने के बाद स्विच ऑन करें और आउटपुट वोल्टेज माप लें, यदि यह निर्दिष्ट रेंज में है तो स्विच ऑफ कर दें।
- आउटपुट के तारों को आउटपुट टर्मिनल में डालें और लोड ऑन करें।
- मेन्स इनपुट के प्लग को सही पोलैरिटी में इनपुट पाईट में कनेक्ट करें।

| Rating             |                             | 3KVA                                |
|--------------------|-----------------------------|-------------------------------------|
| Active Power       |                             | 2350W                               |
| Input              | <b>Regulated UPS mode</b>   |                                     |
|                    | Rated Voltage               | 230V AC                             |
|                    | Undervoltage                | 180±5V                              |
|                    | Undervoltage Restoration    | 190±5V                              |
|                    | Overvoltage                 | 260±5V                              |
|                    | Overvoltage Restoration     | 250±5V                              |
|                    | <b>Unregulated ECO mode</b> |                                     |
|                    | Undervoltage                | 110±10V                             |
|                    | Undervoltage Restoration    | 120±10V                             |
|                    | Overvoltage                 | 280±10V                             |
|                    | Overvoltage Restoration     | 270±10V                             |
| Output             | Rated voltage (UPS Mode)    | 220V AC                             |
|                    | Voltage (Mains Mode)        | SAME AS INPUT                       |
|                    | Frequency (UPS Mode)        | 50±1Hz                              |
|                    | Frequency (Mains Mode)      | SAME AS INPUT (47-53 Hz)            |
|                    | Overload                    | > 110%                              |
|                    | Transfer Time(typical a.s.) | < 20 ms.                            |
| Battery            | Capacity*                   | 100Ah-200Ah TUBULAR / FLAT / SMF    |
|                    | Number of Battery           | 2                                   |
|                    | Typical Recharge Time       | 8-10 hours approx                   |
|                    | Battery Boost Voltage       | 28.8V-29.4±0.5V                     |
|                    | Protection                  | LOW BATTERY                         |
| Physical           | Net weight (Kg.)            | 25.0 Kg approx                      |
|                    | Gross weight (Kg.)          | 27.0 Kg approx                      |
|                    | Dimension (LxWxH)(mm)       | 300x326x284                         |
| Solar              | Solar Panel                 | PV Panel of 2500Wp,<br>Voc 105V Max |
| Front LCD Displays | Solar High Voltage Cut      | Displays "S HI"                     |
|                    | Solar Overload              | Displays "SoLd"                     |
|                    | Solar Over Temperature      | Displays "SoTP"                     |
|                    | Solar Priority              | Displays "SLB" or "SBL"             |
|                    | Line Current Status         | Displays "LCEn" or "LCdI"           |

|                           |                            | <b>3KVA</b>                                     |
|---------------------------|----------------------------|---|
| <b>Front LCD Displays</b> | Load Percentage            | Displays "L085%"                                |
|                           | Time to Charge & Discharge | Display time to charge or discharge in HH:MM    |
|                           | Overload                   | Displays "old"                                  |
|                           | Short Circuit              | Displays "sct"                                  |
|                           | No Load                    | Displays "nld"                                  |
|                           | Overtemperature            | Displays "otp"                                  |
|                           | Battery Low                | Displays "Lbt" when batt. completely discharged |
|                           | Battery High Cut           | Displays "btHI" When battery voltage > 52.5V    |
|                           | Temp. Sensor Failed        | Displays "Otp" When internal failure            |
|                           | Battery Level Symbol       | Displays battery level available                |
|                           | Charging Symbol            | Displays when battery is charging               |
|                           | Mains Symbol               | Displays spark symbol                           |
|                           | Mode Selection             | Displays ECO or UPS Mode                        |
|                           | Fault Symbol               | Displays if there any fault or trip condition   |
| <b>Alarms</b>             | UPS ON/OFF                 | Single Beep of 1Sec.                            |
|                           | Low Battery                | 1 Beep of 5Sec.                                 |
|                           | Battery High Cut           | 1 Beep of 5Sec.                                 |
|                           | NO Load shutdown           | 1 Beep of 5Sec.                                 |
|                           | Short Circuit              | 1 Beep of 5Sec.                                 |
|                           | Overload shutdown          | 1 Beep of 5Sec.                                 |
|                           | Low Battery Warning        | 10 Beeps of 1Sec. each                          |
|                           | Over Temperature           | Single Beep for 5Secs.                          |
|                           | Temp. Sensor Failed        | Single Beep for 5Secs.                          |
|                           | Solar High Voltage         | 10 Beeps of 1Sec. each                          |
| <b>Environmental</b>      | Operating Temperature      | 0-45°C (32-113°F)                               |
|                           | Storage Temperature        | 0-45°C (32-113°F)                               |
|                           | Humidity                   | 0-95% RH non-condensing                         |

Due to continuous product improvement, the specifications are subject to change without notice.

**\*AC (Air Conditioner) Operating Mode :**

Unit works fine in Eco/UPS Mode for Inverter AC.

For Normal AC, unit to be used in UPS Mode only.

\* TDR ON Time of SOLARVERTER PRO 3KVA-36V is 60-120second and it can add additional 4 min. delay in AC startup during power failure.

• Recommended AC rating upto: 1 Ton.

• Recommended AC current upto: 9Aac.

## 12. WARRANTY

**LUMINOUS POWER TECHNOLOGIES PVT. LTD.** warrants its UPS to be free from defects in materials and workmanship for a period of two year after initial delivery. This obligation is limited to servicing any UPS or part returned to the authorised service centre for that purpose and to making good any parts thereof which shall, within the warranty period, be returned to the Company or Authorised Service Centre under a written intimation and which to the company's satisfaction be found defective. The company reserves the right to decide as to whether the repair work should be carried out in the company's service center or at site or at any other place. The freight incurred for to and fro despatch of the defective material will have to be borne by the customer, and the transit risk for the material will rest with the purchaser.

The warranty does not extend to any parts of the instrument which have been subjected to misuse or accident. Further, this warranty does not extend to any instrument which has been tampered with by any agency not authorised by the company.

The warranty will last for a period of 24 months from the date of initial delivery / despatch of the instrument if used within its specifications. The warranty for the replaced components will lapse along with that of the main instrument. **LUMINOUS POWER TECHNOLOGIES PVT. LTD.** reserves the right to make changes in design and specifications without notice and without any obligation to install such changes on units previously supplied.

In no event will **LUMINOUS POWER TECHNOLOGIES PVT. LTD.**, its Distributors / Dealers be liable for consequential or incidental damages or for any expenses incurred by the buyer or user, due to use or sale of products sold by **LUMINOUS POWER TECHNOLOGIES PVT. LTD.** directly or through its authorised Distributors / Dealers or any third party.

Until superseded otherwise or in contractual form this warranty is made expressly in lieu of all other liabilities and obligations on part of **LUMINOUS POWER TECHNOLOGIES PVT. LTD.**

Title to the instrument passes to the buyer upon delivery to the common carrier.

### IMPORTANT

In the event of an instrument requiring servicing at our authorised service center, the following procedure should be adopted.

1. The instrument must be securely packed, preferably in its original packing.
2. The instrument should be despatched on Freight-prepaid basis duly insured.
3. One of our Service/ Sales Executives should be informed of the Goods Receipt No. and date of despatch along with the name of the carrier.
4. The above procedure should only be adopted on the advise of one of our Service/Sales Executive or Dealer.
5. We reserve the right to charge the consignee for any damage incurred during transit.

## 13. SERVICE

In the unlikely event if you are facing a problem that has not been sorted out by troubleshooting, kindly adopt the following procedure: Complaints may be logged on our customer care number 99999 33039.

यदि आपकी समस्याएँ आकस्मिक, समस्याओं में लिखे तरीके से नहीं सुलझती तो आप हमारे customer care number 99999 33039 पर सम्पर्क करें।

### EQUIPMENT DETAILS

|                                   |                          |
|-----------------------------------|--------------------------|
| MODEL : SOLAR<br>PCU MPPT         | Sr. No. :<br><div></div> |
| 3KVA/36V <input type="checkbox"/> |                          |



This Portion to be filled by the dealer

**Product Details : About the Solar PCU MPPT**

Model Rating : SOLAR PCU MPPT

Serial No. :



About the battery

Battery Model &amp; Capacity : .....

Battery Serial No. : .....

Date Of Installation:

Signature of Service Personnel

**DEALER DETAILS**

(Please fill / affix. your stamp)

Name .....

Address1.....

Address2.....

City : .....State : .....

Pincode : .....Mobile : .....

E-mail : .....

Dealer Signature &amp; Date

## WARRANTY REGISTRATION FORM

## CUSTOMER DETAILS

Name: .....

Address1: .....

Address2: .....

City: ..... State: .....

Pin: ..... Mobile: .....

Occupation: .....

How did you first hear about our product : .....

Birthday (optional) :

   
**D D**
   
**M M**
     
**Y Y Y Y**

• Please rate how you felt? (Please circle appropriate option)

During the sales presentation



At the time of installation



The Product has been installed to my satisfaction. (Please refer to the Installation

Procedure and safety measures outlined in accompanying guide for users) :





Yes ☐No ☐

Customer Signature &amp; Date

# AMAZE

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## Customer Support Division

 **Longlast Power Products Limited**, Plot No. 150, Sector-44, Gurugram- 122003 (India)  
 99999 33039,  [www.amaze-india.com](http://www.amaze-india.com),  
 [care@amaze-india.com](mailto:care@amaze-india.com)