
# NUMERIC Valura 1-3 kVA In Built Battery Installation Guide



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NUMERIC®

**NUMERIC Valura 1-3 kVA In Built Battery**


**Specifications:**

- **Product Name:** Valura
- **Capacity:** 1-3 kVA
- **Battery:** In-built

## Product Usage Instructions:

**Important Safety Warning**
Please comply with all warnings and operating instructions in this manual strictly. Save this manual properly and carefully read the following instructions before installing the unit. Do not operate this unit before reading through all safety information and operating instructions carefully.

**Transportation**
Ensure safe transportation of the unit to prevent damage.

**Preparation**
Inspect the unit before installation to ensure no damage.

**Installation**
Follow the installation guidelines provided below.

**Operation**
Follow the operational instructions provided below.

**Maintenance, service and faults**
Refer to the maintenance section for information on servicing and handling faults.

**Installation and Setup**

**Rear Panel View**
View and understand the layout of the rear panel for connection purposes.

**Operating Principle**
Understand the operating principle of the UPS as detailed in the manual.

**Setup the UPS**

1. **Step 1:** UPS Input Connection – Plug into a grounded receptacle.
2. **Step 2:** Communication Connection – Connect communication cables for monitoring and shutdown options.
3. **Step 3:** Turn on the UPS – Press the ON/Mute button for two seconds to power on.
4. **Step 4:** Install Software – Install monitoring software for full configuration.

**FAQ:**

- **Q: Can I use extension cords for connecting the UPS?**
  A: It is advised to avoid using extension cords for connecting the UPS. Please plug it directly into a grounded receptacle.
- **Q: What should I do if I encounter a fault code on the UPS?**
  A: Refer to the faults reference code section in the manual to troubleshoot and resolve any issues indicated by fault codes.

**PREFACE.**
Congratulations, we are delighted to welcome you to our family of customers. Thank you for choosing Numeric as your power backup solution provider. You now have access to our widest network of 250+ service centers in the country.
Since 1984, Numeric has been enabling its clients to optimize their business with top notch power solutions that promise seamless and clean power with controlled environmental footprints.
We look forward to your continued patronage in the years to come!
This manual provides general information regarding installation and operation of Valura.
Valura from Numeric is a true online double conversion UPS available from 1-3kVA with built-in batteries.

## Important Safety Warning

Please comply with all warnings and operating instructions in this manual strictly. Save this manual properly and carefully read the following instructions before installing the unit. Do not operate this unit before reading through all safety information and operating instructions carefully.

**Transportation**
Please transport the UPS system only in the original package to protect against shock and impact.

**Preparation**

- Condensation may occur if the UPS system is moved directly from cold to warm environment. The UPS system must be absolutely dry before being installed. Please allow at least two hours for the UPS system to acclimate to the environment.
- Do not install the UPS system near water or in moist environments.
- Do not install the UPS system where it would be exposed to direct sunlight or near a heater.
- Do not block ventilation holes in the UPS housing.

**Installation**

- Do not connect appliances or devices which would overload the UPS system (e.g. laser printers) to the UPS output sockets.
- Place cables in such a way that no one can step on or trip over them.
- Do not connect domestic appliances such as hair dryers to UPS output sockets.
- The UPS can be operated by any individuals with no previous experience.
- Connect the UPS system only to an earthed shockproof outlet which must be easily accessible and close to the UPS system.
- Please use only VDE-tested, ISI-marked mains cable (e.g. the mains cable of your computer) to connect the UPS system to the building wiring outlet (shockproof outlet).
- Please use only VDE-tested, ISI-marked power cables to connect the loads to the UPS system.
- When installing the equipment, it should ensure that the sum of the leakage current of the UPS and the connected devices does not exceed 3.5mA.
- UPS is designed for linear load applications.

### Operation

- Do not disconnect the mains cable on the UPS system or the building wiring outlet (shockproof socket outlet) during operations since this would cancel the protective earthing of the UPS system and of all connected loads.
- The UPS system features its own, internal current source (batteries). The UPS output sockets or output terminals block may be electrically live even if the UPS system is not connected to the building wiring outlet.
- In order to fully disconnect the UPS system, first press the OFF/Enter button to disconnect the mains.
- Ensure that no fluids or other foreign objects enter the inside of the UPS system.

### Maintenance, service and faults

- The UPS system operates with hazardous voltages. Repairs may be carried out only by qualified maintenance personnel.
- CAUTION – risk of electric shock. Even after the unit is disconnected from the mains (building wiring outlet), components inside the UPS system are still connected to the battery and electrically live and dangerous.
- Before carrying out any kind of service and/or maintenance, disconnect the batteries and verify that no current is present, and no hazardous voltage exists in the terminals of high capability capacitor such as BUS-capacitors.
- Only personnel who adequately familiar with batteries and with the required precautionary measures may replace batteries and supervise operations. Unauthorized persons must be kept well away from the batteries.
- CAUTION – risk of electric shock. The battery circuit is not isolated from the input voltage. Hazardous voltages may occur between the battery terminals and the ground. Before touching, please verify that no voltage is present.
- Batteries may cause electric shock and have a high short circuit current. Please take the precautionary measures specified below and any other measures necessary when working with batteries:
    - Remove wristwatches, rings and other metal objects.
    - Use only tools with insulated grips and handles.
- When changing batteries, install the same number and same type of batteries.
- Do not attempt to dispose of batteries by burning them. This could cause battery explosion.
- Do not open or destroy batteries. The escaping electrolyte can cause injury to the skin and eyes and may be

toxic.

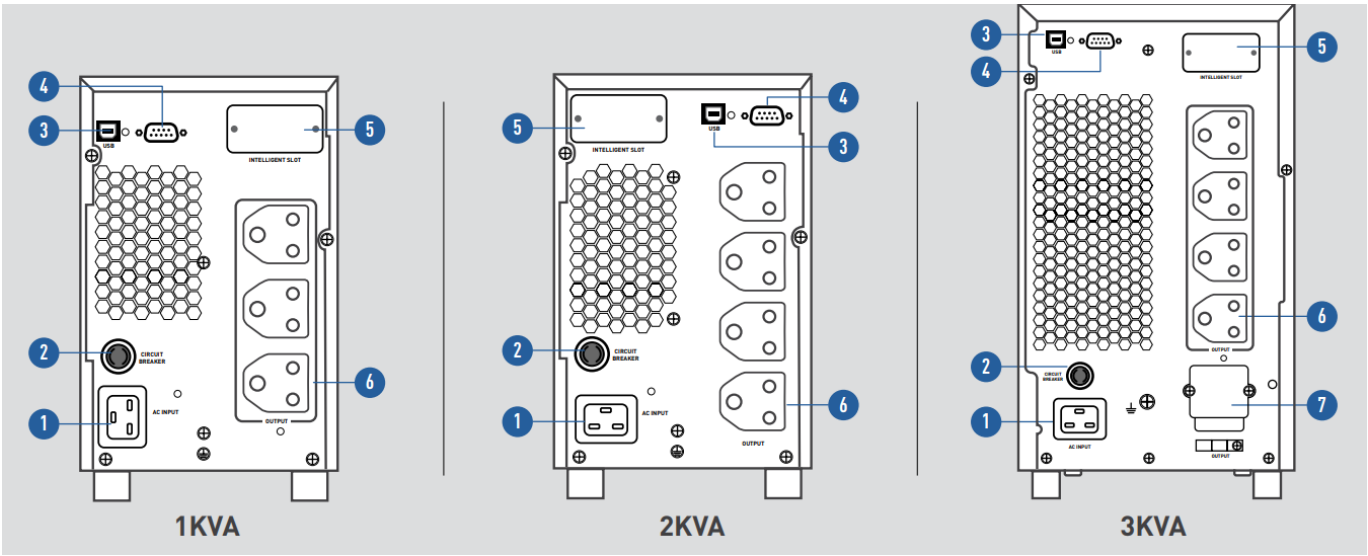
- Please replace the fuse only with the same type and amperage in order to avoid fire hazards.
- Do not dismantle the UPS system.
- Connect UPS to short circuit protected building wiring.
- The UPS system has internal fuses on both DC & AC inputs. Those devices do not protect the upstream cables connected to DC & AC inputs and upstream breakers or fuses shall be set up in accordance with AC & DC wires ratings to meet the local national electrical code standard.
- **WARNING**: This is a category C2 UPS product. In a residential environment, this product may cause radio interference, in which case the user many be required to take additional measures. (only for 220/230/240 VAC system)

## Installation and setup

**NOTE**: Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. Please keep the original package in a safe place for future use.

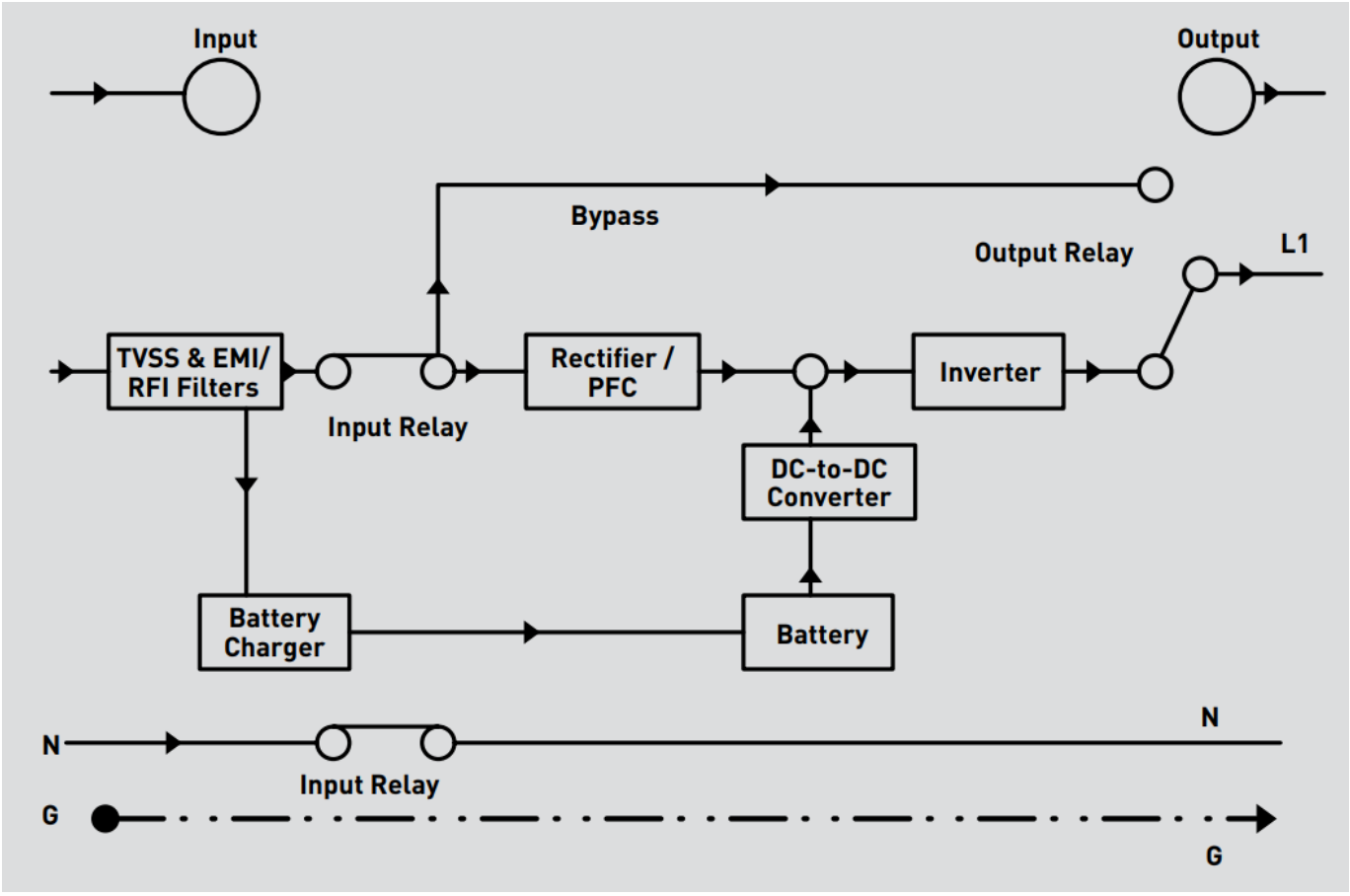
### Rear panel view

1. AC input
2. Input circuit breaker
3. USB communication port
4. RS-232 communication port
5. SNMP intelligent slot (option)
6. Output receptacles
7. Output terminal




### Operating principle

The operating principle of the UPS is shown as below.



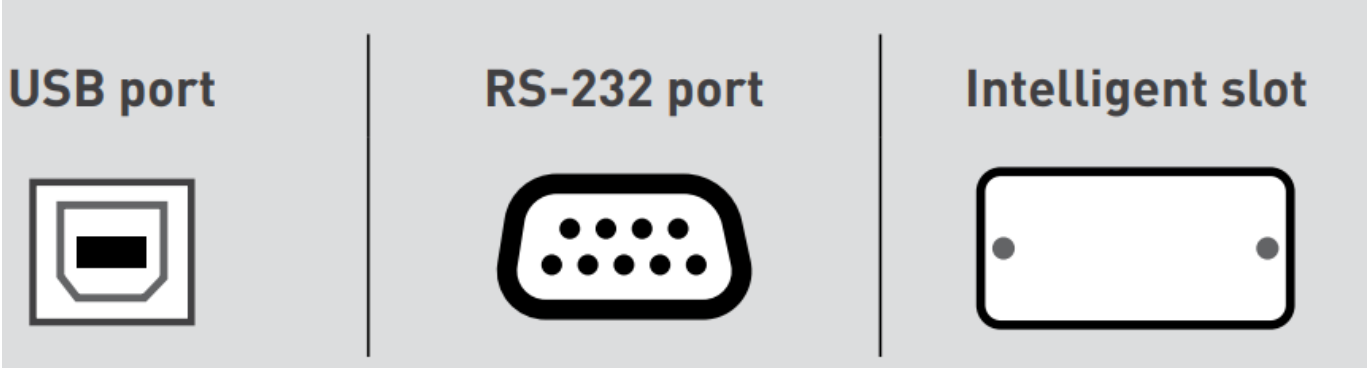

**Step 1 UPS input connection**
Plug the UPS into a two-pole, three-wire, grounded receptacle only. Avoid using extension cords.

**Step 2 UPS output connection**

- For socket-type outputs, simply connect devices to the outlets.
- For terminal-type input or outputs, please follow below steps for the wiring configuration:
  - Remove the small cover of the terminal block.
  - Suggest using AWG14 or 2.1mm 2 power cords.
  - Upon completion of the wiring configuration, please check whether the wires are securely affixed.
  - Put the small cover back to the rear panel.

**Step 3 Communication connection**

**Communication port:**




To allow for unattended UPS shutdown/start-up and status monitoring, connect one end of the communication

cable to the USB/RS-232 port and the other to the communication port of your PC. With the monitoring software installed, you can schedule UPS shutdown/start-up and monitor UPS status through PC.
The UPS is equipped with intelligent slot perfect for either SNMP or AS400 card. When installing either SNMP or AS400 card in the UPS, it will provide advanced communication and monitoring options.
PS. USB port and RS-232 port can't work at the same time.

**Step 4 Turn on the UPS**
Press the ON/Mute button on the front panel for two seconds to power on the UPS.

**Note**: The battery charges fully during the first five hours of normal operation. Do not expect full battery run capability during this initial charge period.

**Step 5 Install software**
For optimal computer system protection, install UPS monitoring software to fully configure UPS shutdown. You may insert provided CD into CD-ROM to install the monitoring software.

1. Follow the on-screen instructions to install the software.
2. When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray, near the clock.

**Battery replacement**

**NOTICE**: This UPS is equipped with internal batteries and user can replace the batteries with shutting down the UPS and connected loads.
Replacement is a safe procedure, isolated from electrical hazards.

**CAUTION**!! Consider all warnings, cautions, and notes before replacing batteries.
**Note**: Upon battery disconnection, equipment is not protected from power outages.

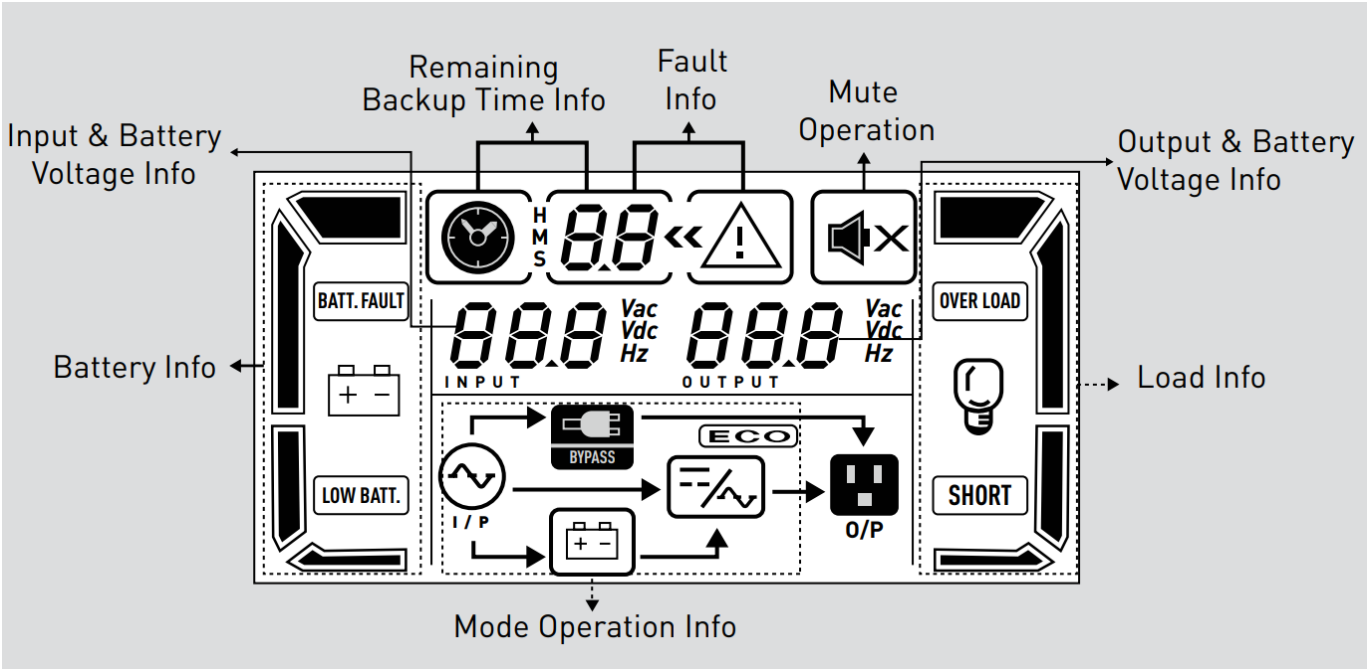
| Step 1 | Step 2 | Step 3 |
|---|---|---|
| Remove the top cover of ups and di sconnect the battery wires. | Replace the batteries, and then con nect the battery wires. | Fix the top cover. Ensure the wires and screws tightness |

## Operations

**Button operation**

| Button | Function |
| --- | --- |
| **ON/Mute Button** | • Turn on the UPS: Press and hold ON/Mute button for at least 2 seconds to turn on the UPS.<br>• Mute the alarm: When the UPS is on battery mode, press and hold this button for at least 5 seconds to disable or enable the alarm system. But it's not applied to the situations when warnings or errors occur.<br>• Up key: Press this button to display previous selection in UPS setting mode.<br>• Switch to UPS self-test mode: Press and hold ON/Mute button for 5 seconds to enter UPS self-testing while in AC mode, ECO mode, or converter mode. |
| **OFF/Enter Button** | • Turn off the UPS: Press and hold this button for at least 2 seconds to turn off the UPS. The UPS will enter standby mode under normal power conditions or transfer to Bypass mode if the Bypass enable setting is activated by pressing this button.<br>• Confirm selection key: Press this button to confirm selection in UPS setting mode. |
| **Select Button** | • Switch LCD message: Press this button to change the LCD message for input voltage, input frequency, battery voltage, output voltage and output frequency. It will return back to default display when pausing for 10 seconds.<br>• Setting mode: Press and hold this button for 5 seconds to enter UPS setting mode when UPS is in standby mode or bypass mode.<br>• Down key: Press this button to display next selection in UPS setting mode. |
| **ON/Mute + Select Button** | • Switch to bypass mode: When the main power is normal, press ON/Mute and Select buttons simultaneously for 5 seconds. Then UPS will enter the bypass mode. This action will be ineffective when the input voltage is out of acceptable range. |

**LCD Panel**




| Display | Function |
|---|---|
| **Remaining backup time information** | |
|  | Indicates the remaining backup time in pie chart. |
|  | Indicates the remaining backup time in numbers.<br>H: hours, M: minute, S: second |
| **Fault information** | |
|  | Indicates that the warning and fault occurs. |
|  | Indicates the warning and fault codes, and the codes are listed in details in 3-5 section. |
| **Mute operation** | |
|  | Indicates that the UPS alarm is disabled. |
| **Output & Battery voltage information** | |
|  | Indicates the output voltage, frequency or battery voltage.<br>VAC: output voltage, VDC: battery voltage, Hz: frequency |

| Load information | |
|---|---|
|  | Indicates the load level by 0-25%, 26-50%, 51-75%, and 76-100%. |
| OVER LOAD | Indicates overload. |
| SHORT | Indicates a short circuit in the load or the UPS output. |

| Mode operation information | |
|---|---|
|   | Indicates the UPS connects to the mains. |
|  | Indicates the battery is working. |
|   | Indicates the bypass circuit is working. |
| ECO | Indicates the ECO mode is enabled. |
|  | Indicates the Inverter circuit is working. |
|   | Indicates the output is working. |

| Battery information | |
|---|---|
|  | Indicates the Battery level by 0-25%, 26-50%, 51-75%, and 76-100%. |
| BATT.FAULT | Indicates a battery fault. |
| LOW BATT. | Indicates low battery level and low battery voltage. |

| Input & Battery voltage information | |
|---|---|
|   | Indicates the input voltage or frequency or battery voltage.<br>Vac: Input voltage, Vdc: battery voltage, Hz: input frequency |

**Audible Alarm**

- Battery Mode Sounding every 4 seconds
- Low Battery Sounding every second

- Overload Sounding twice every second
- Fault Continuously sounding
- Bypass Mode Sounding every 10 seconds

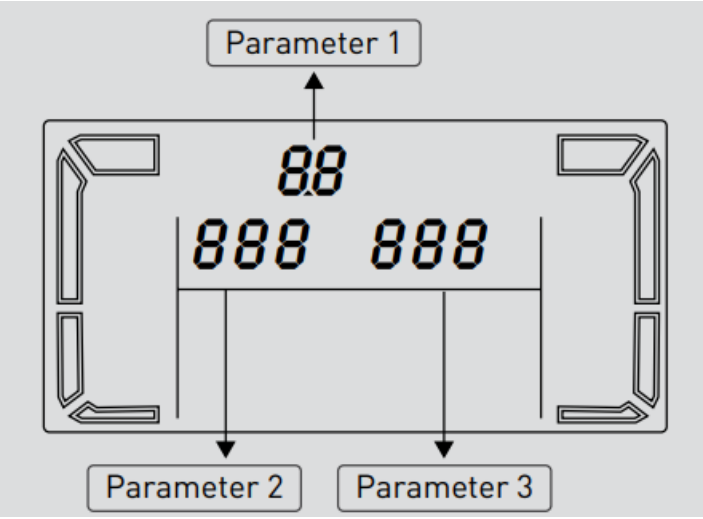
**LCD display wordings index**

| Abbreviation | Display content | Meaning |
|---|---|---|
| ENA | *EnA* | Enable |
| DIS | *dI S* | Disable |
| ESC | *ESC* | Escape |
| HLS | *HLS* | High loss |
| LLS | *LLS* | Low loss |
| BAT | *bA* | Battery |
| CF | *CF* | Converter |
| TP | *P* | Temperature |
| CH | *CH* | Charger |
| FU | *FU* | Bypass frequency unstable |
| EE | *EE* | EEPROM error |
| | | |

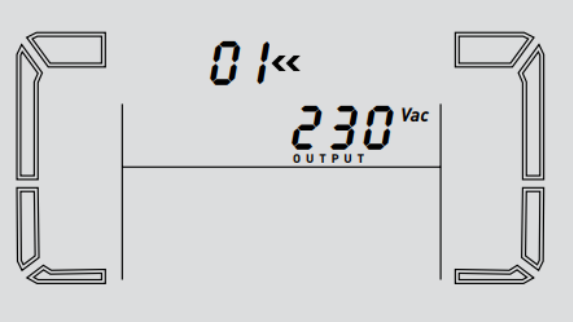
**UPS Setting**

There are three parameters to set up the UPS.

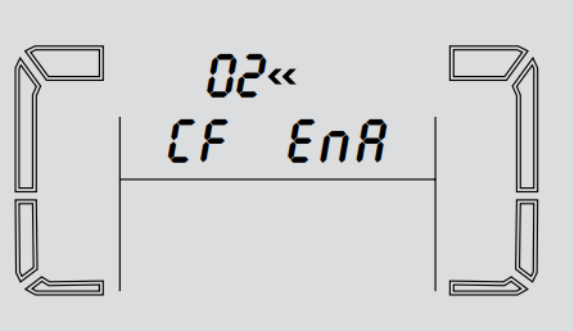
**Parameter 1:**
It's for program alternatives.
Refer to below table. Parameter 2 and parameter 3 are the setting options or values for each program.



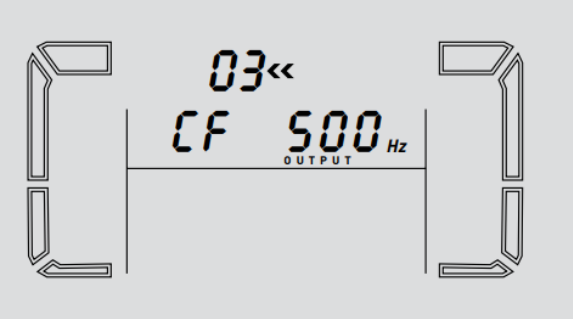

**Output voltage setting**

| Interface | Setting |
| --- | --- |
|  | **Parameter 3: Output voltage**<br><br>For 200/208/220/230/240 VAC models, you may choose the f ollowing output voltage:<br><br>**200**: presents output voltage is 200Vac **208**: presents output voltage is 208Vac **220**: presents output voltage is 220Vac<br><br>**230**: presents output voltage is 230Vac (Default)<br><br>**240**: presents output voltage is 240Vac |

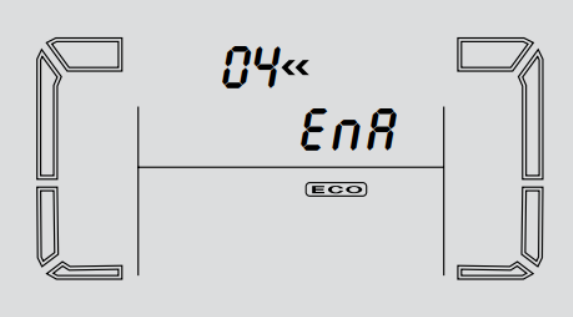
**Frequency Converter enable/disable**

| Interface | Setting |
| --- | --- |
|  | **Parameter 2 & 3**: Enable or disable converter mode. You ma y choose the following two options:<br><br>**CF ENA**: converter mode enable<br><br>**CF DIS**: converter mode disable (Default) |

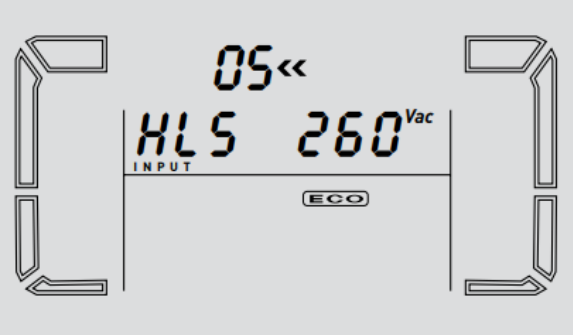
**Output frequency setting**

| Interface | Setting |
| --- | --- |
|  | **Parameter 2 & 3: Output frequency setting.**<br><br>You may set the initial frequency on battery mode:<br><br>**BAT 50:** presents output frequency is 50Hz<br><br>**BAT 60:** presents output frequency is 60Hz<br><br>If converter mode is enabled, you may choose the following o utput frequency:<br><br>**CF 50:** presents output frequency is 50Hz<br><br>**CF 60:** presents output frequency is 60Hz |

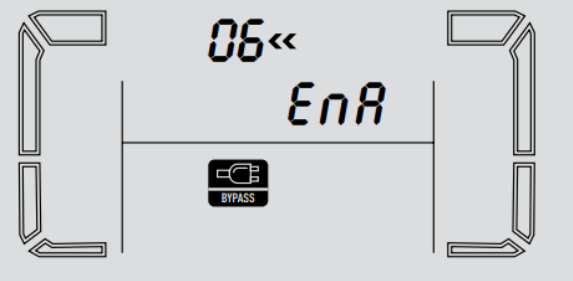
**ECO enable/disable**

| Interface | Setting |
| --- | --- |
|  | **Parameter 3**: Enable or disable ECO function. You may choose the following two options: **ENA**: ECO mode enable<br><br>**DIS**: ECO mode disable (Default) |

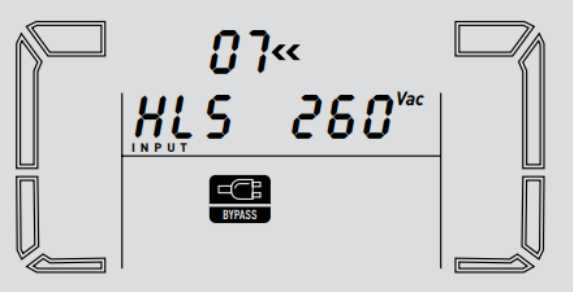
**ECO voltage range setting**

| Interface | Setting |
| --- | --- |
|  | **Parameter 2 & 3:** Set the acceptable high voltage point and low voltage point for ECO mode by pressing Down key or Up key.<br><br>**HLS:** High loss voltage in ECO mode in Parameter 2.<br><br>For 200/208/220/230/240 VAC models, the setting range in parameter 3 is from +7V to +24V of the nominal voltage. (Default: +12V)<br><br>**LLS:** Low loss voltage in ECO mode in Parameter 2.<br><br>For 200/208/220/230/240 VAC models, the setting range in parameter 3 is from -7V to -24V of the nominal voltage. (Default: -12V) |

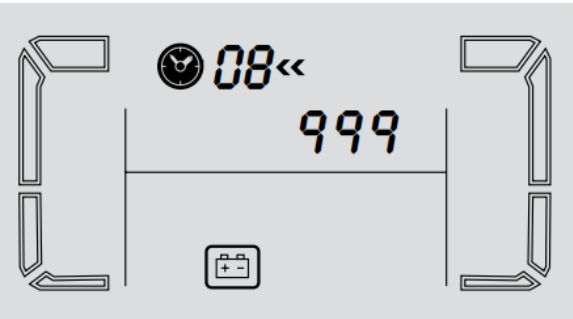
**Bypass enable/disable when UPS is off**

| Interface | Setting |
| --- | --- |
|  | **Parameter 3**: Enable or disable Bypass function. You may choose the following two options:<br><br>**ENA**: Bypass enable<br><br>**DIS**: Bypass disable (Default) |

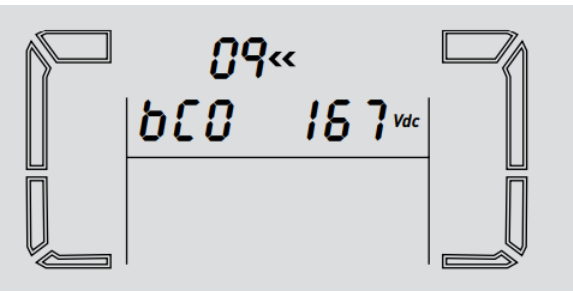
**Bypass voltage range setting**

| Interface | Setting |
| --- | --- |
|  | **Parameter 2 & 3**: S **Parameter 2 & 3:** Set the acceptable hig h voltage point and acceptable low voltage point for Bypass mode by pressing the Down key or Up key.<br><br>**HLS:** Bypass high voltage point<br><br>For 200/208/220/230/240 VAC models:<br><br>**230-264:** setting the high voltage point in parameter 3 from 2 30Vac to 264Vac. (Default: 264Vac)<br><br>**LLS:** Bypass low voltage point<br><br>For 200/208/220/230/240 VAC models:<br><br>**170-220:** setting the low voltage point in parameter 3 from 17 0Vac to 220Vac. (Default: 170Vac) |

**Autonomy limitation setting**

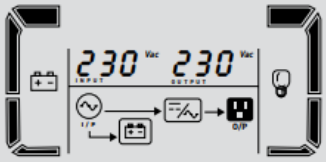
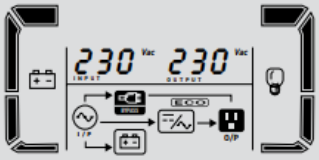
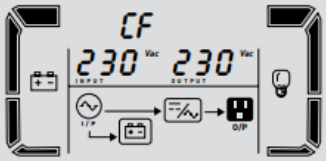
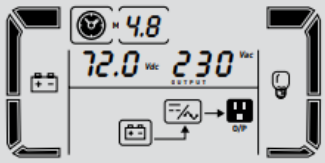
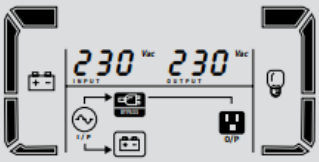
| Interface | Setting |
| --- | --- |
|  | **Parameter 3:** Set up backup time on battery mode for gener al outlets.<br><br>**0-999:** setting the backup time in minutes from 0-999 for general outlets on battery mode.<br><br>**0:** When setting as “0”, the backup time will be only 10 seconds.<br><br>**999:** When setting as “999”, the backup time setting will be di sabled. (Default) |

**Total battery AH**

| Interface | Setting |
| --- | --- |
|  | **Parameter 3:** Set up total battery AH value of the UPS. (unit: AH)<br><br>**7-999:** setting the total battery capacity from 7 to 999. Please set up this figure if external battery pack is connected.<br><br>If the UPS is standard model, the default setting is 9AH. |

00: Exit setting

**Operating Mode Description**

| Operating mode | Description | LCD display |
|---|---|---|
| **Online mode** | When the input voltage is within acceptable range, UPS will provide pure and stable AC power to output. The UPS will also charge the battery at online mode. |  |
| **ECO mode** | **Energy saving mode:** When the input voltage is within voltage regulation range, UPS will bypass voltage to output for energy saving. |  |
| **Frequency Converter mode** | When input frequency is within 40 Hz to 70 Hz, the UPS can be set at a constant output frequency, 50 Hz or 60 Hz. The UPS will still charge battery under this mode. |  |
| **Battery mode** | When the input voltage is beyond the acceptable range or power failure and alarm is sounding every 4 second, UPS will backup power from battery. |  |
| **Bypass mode** | When input voltage is within acceptable range but UPS is overload, UPS will enter bypass mode or bypass mode can be set by front panel. Alarm is sounding every 10 second. |  |

| Operating mode | Description | LCD display |
|---|---|---|
| Standby mode | UPS is powered off and no output supply power, but still can charge batteries. |  |

**Faults Reference Code**

| Fault event | Fault code | Icon | Fault event | Fault code | Icon |
|---|---|---|---|---|---|
| Bus start fail | 01 | x | Inverter output short | 14 | SHORT |
| Bus over | 02 | x | Battery voltage too high | 27 | BATT. FAULT |
| Bus under | 03 | x | Battery voltage too low | 28 | BATT. FAULT |
| Bus unbalance | 04 | x | Over temperature | 41 | x |
| Inverter soft start failure | 11 | x | Overload | 43 | OVER LOAD |
| Inverter voltage high | 12 | x | Charger failure | 45 | x |
| Inverter voltage Low | 13 | x | | | |

**Warning indicator**

| Fault event | Icon | Fault event |
|---|---|---|
| Low Battery | ⚠ LOW BATT. | Sounding every second |
| Overload | ⚠ OVER LOAD | Sounding twice every second |
| Battery is not connected | ⚠ | Sounding every second |
| Over Charge | ⚠ | Sounding every second |
| Over temperature | tP ⚠ | Sounding every second |
| Charger failure | CH ⚠ | Sounding every second |
| Battery fault | ⚠ BATT. FAULT | Sounding every second |
| Out of bypass voltage range | ⚠ BYPASS | Sounding every second |
| Bypass frequency unstable | FU ⚠ | Sounding every second |
| EEPROM error | EE ⚠ | Sounding every second |

## Troubleshooting

If the UPS system does not operate correctly, please solve the problem by using the table below.

| Symptom | Possible cause | Remedy |
| --- | --- | --- |
| No indication and alarm even though the mains is normal. | The AC input power is not connected well. | Check if the input power cord is firmly connected to the mains. |
| | The AC input is connected to the UPS output. | Plug AC input power cord to AC input correctly. |
| The icon  and  flashing on LCD display and alarm is sounding every second. | The external or internal battery is incorrectly connected. | Check if all batteries are connected well. |
| Fault code is shown as 27 and the icon  is lighting on LCD display and alarm is continuously sounding. | Battery voltage is too high or the charger is fault. | Contact your dealer. |
| Fault code is shown as 28 and the icon  is lighting on LCD display and alarm is continuously sounding. | Battery voltage is too low or the charger is fault. | Contact your dealer. |
| The icon  and  is flashing on LCD display and alarm is sounding twice every second. | UPS is overload | Remove excess loads from UPS output. |
| | UPS is overloaded. Devices connected to the UPS are fed directly by the electrical network via the Bypass. | Remove excess loads from UPS output. |
| | After repetitive overloads, the UPS is locked in the Bypass mode. Connected devices are fed directly by the mains. | Remove excess loads from UPS output first. Then shut down the UPS and restart it. |
| Fault code is shown as 43 and the icon  is lighting on LCD display and alarm is continuously sounding. | The UPS shut down automatically because of overload at the UPS output. | Remove excess loads from UPS output and restart it. |
| Fault code is shown as 14 and the icon  is lighting on LCD display and alarm is continuously sounding. | The UPS shut down automatically because short circuit occurs on the UPS output. | Check output wiring and if connected devices are in short circuit status. |

| Symptom | Possible cause | Remedy |
|---|---|---|
| Fault code is shown as 01, 02, 03, 04, 11, 12, 13, 41 and 45 on LCD display and alarm is continuously sounding. | A UPS internal fault has occurred. There are two possible results:<br>1. The load is still supplied, but directly from AC power via bypass.<br>2. The load is no longer supplied by power. | Contact your dealer |
| Battery backup time is shorter than nominal value | Batteries are not fully charged | Charge the batteries for at least 5 hours and then check capacity. If the problem still persists, consult your dealer. |
| | Batteries defect | Contact your dealer to replace the battery. |

If the problem persists, visit [www.numericups.com](http://www.numericups.com) to register your service request and contact our nearest after sales service department; or contact us.: 0484-3103266 / 4723266 with the below details:.

1. Model number, Serial number
2. Date on which the problem occurred
3. LCD/LED display status, Buzzer alarm status
4. Utility power condition, load type and capacity, environment temperature, ventilation condition
5. Other information for complete description of the problem

## Storage and Maintenance

**Operation**
The UPS system contains no user-serviceable parts. If the battery service life (3~5 years at 25°C ambient temperature) has been exceeded, the batteries must be replaced. In this case, please contact your dealer.

Be sure to deliver the used battery to a recycling facility or ship it to your dealer in the replacement battery packing material.

**Storage**
Before storing, charge the UPS for 5 hours. Store the UPS covered and upright in a cool, dry location. During storage, recharge the battery in accordance with the following table:

| Storage Temperature | Recharge Frequency | Charging Duration |
|---|---|---|
| -25°C – 40°C | Every 3 months | 1-2 hours |
| 40°C – 45°C | Every 2 months | 1-2 hours |

**Ref standard: ISO 14001:2015**

- After unpacking the UPS, the removed packaging materials like polythene paper, thermocole/polyethylene, carton box, nylon belt, nylon thread shall be collected and disposed through authorized recycler.
- Batteries when found faulty/damaged must be handed over to identified authorized recycler or to Numeric, where it is disposed properly.
- Battery contains harmful metals and chemicals such as nickel-cadmium, alkaline, mercury, nickel-metal hydride and lead acid, which contaminates if it is not disposed properly.
- When batteries containing cadmium is thrown in fills, they will eventually dissolve and release the toxic substance which can seep into water supplies posing serious health hazards for the population/society. Hence, recycling of batteries will prevent pollution and saves resource.

## Specifications

Tower (Inbuilt battery UPS)

| PARAMETERS | | 1KVA | 2KVA | 3 KVA |
|---|---|---|---|---|
| Topology | | True online double conversion UPS | | |
| Output power capacity | | 800 W | 1600 W | 2400 W |
| **INPUT** | | | | |
| Phase | | Single phase | | |
| Voltage range | Low line transfer | 160VAC/ 140VAC/ 120VAC/ 110VAC ±5% (Ambient temperature <35*C) (based on load percentage 100% – 80 % / 80 % – 70 % / 70 – 60 % / 60 % – 0) | | |
| | Low line comeback | 175VAC/ 155VAC/ 135VAC/ 125VAC ± 5 % (Ambient temperature <35*C) (based on load percentage 100%-80 %/ 80%-70% /70-60%/ 60%-0) | | |
| | High line transfer | 300 VAC ± 5 % | | |
| | High line comeback | 290 VAC ± 5 % | | |
| Frequency range | | 40Hz ~ 70 Hz | | |
| Power factor | | ≧ 0.9 @ nominal voltage (input voltage) | | |
| **OUTPUT** | | | | |
| Output voltage | | 200/208/220/230/240 VAC | | |
| AC voltage regulation | | ±1% (Battery mode) | | |
| Frequency range | | 47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized range) | | |
| Frequency range (Battery mode) | | 50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz | | |

| | | | | |
|---|---|---|---|---|
| Overload | | Ambient temperature <35*C<br>105%~110%: UPS shuts down after 10 minutes in battery mode or transfers to bypass when the utility is normal<br>110%~130%: UPS shuts down after 1minute in battery mode or transfers to bypass when the utility is normal<br>>130%: UPS shuts down after 3 seconds in battery mode or transfers to bypass when the utility is normal | | |
| Current crest ratio | | 3:1 | | |
| Harmonic distortion | | ≦ 3 % THD (linear load); ≦ 6 % THD (non-linear load) | | |
| Transfer Time | AC mode to battery mode | Zero | | |
| | Inverter to bypass | 4 ms (Typical) | | |
| Waveform (Battery mode) | | Pure sinewave | | |
| **BATTERY** | | | | |
| Standard In-built battery model | Battery Type | 12V-7AH/9AH | | |
| | Number of batteries | 2 | 4 | 6 |
| | Battery voltage | 24VDC | 48VDC | 72VDC |
| | Recharge time | 4 hours to recharge upto 90% capacity (Typical) | | |
| | Charging current | 1.0 A (max.) | | |
| | Charging voltage | 27.4 VDC ± 1% | 54.7 VDC ±1% | 82.1 VDC ±1% |
| **PHYSICAL** | | | | |
| Standard Model | Dimension D X W X H (in mm) | 282 X 145 X 220 | 397 X 145 X 220 | 421 X 190 X 318 |
| | Net Weight (kgs) | 9.8 | 17 | 26.2 |
| **ENVIRONMENT** | | | | |
| Operation humidity | | 20-90 % RH @ 0- 40°C (non-condensing) | | |
| Noise level | | less than 50dBA @ 1 Meter | | |
| **MANAGEMENT** | | | | |
| Smart RS-232 or USB | | Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux, Unix and MAC | | |
| Optional SNMP | | Power management from SNMP manager and web browser | | |

**Note :**
Derate capacity to 80% of capacity in Frequency converter mode or when the output voltage is adjusted to 200/208VAC. Product specifications are subject to change without further notice.

- **Head Office**

  10th Floor, Prestige Center Court, Office Block, Vijaya Forum Mall, 183, N.S.K Salai, Vadapalani,

Chennai – 600 026.
Phone: +91 44 4656 5555

**Regional Offices**

- **New Delhi**
  B-225, Okhla Industrial Area, 4th Floor, Phase-1, New Delhi – 110 020.
  Phone: +91 11 2699 0028
- **Kolkata**
  Bhakta Tower, Plot No. KB22, 2nd & 3rd Floor, Salt Lake City, Sector – III, Kolkata – 700 098.
  Phone : +91 33 4021 3535 / 3536
- **Mumbai**
  C/203, Corporate Avenue, Atul Projects, Near Mirador Hotel, Chakala, Andheri Ghatkopar Link Road, Andheri (East), Mumbai – 400 099.
  Phone : +91 22 3385 6201
- **Chennai**
  10th Floor, Prestige Center Court, Office Block, Vijaya Forum Mall, 183, N.S.K Salai, Vadapalani, Chennai – 600 026.
  Phone : +91 44 3024 7236 / 200

**Branch Offices**

- **Chandigarh**
  SCO 4, First Floor, Sector 16, Panchkula, Chandigarh – 134 109. Phone : +91 93160 06215
- **Dehradun**
  Unit-1 and 2, Chakrata Road,
  Vijay Park Dehradun – 248001. Uttrakhand
  Phone : +91 135 661 6111
- **Jaipur**
  Plot No. J-6, Scheme-12B, Sharma Colony, Bais Godown, Jaipur – 302 019.
  Phone : +91 141 221 9082
- **Lucknow**
  209/B, 2nd Floor, Cyber Heights, Vibhuti Khand, Gomti Nagar, Lucknow – 226 018.
  Phone : +91 93352 01364
- **Bhubaneswar**
  N-2/72 Ground Floor, IRC Village, Nayapally, Bhubaneswar – 751 015. Phone: +91 674 255 0760
- **Guwahati**
  House No 02,
- **Rajgarh Girls High School Road**
  (Behind Rajgarh Girls High School), Guwahati – 781 007.
  Phone : +91 361 245 0322/96000 87171
- **Patna**
  405, Fraser Road, Hemplaza,
  4th Floor, Patna – 800 001.

Phone : +91 612 220 0657

- **Ranchi**

  202 & 203, 2nd Floor, Sunrise Forum, Bardwan Compound, Lalpur, 2nd Floor, Ranchi – 834 001.

  Phone : + 91 98300 62078

- **Ahmedabad**

  A-101/102, Mondeal Heights,

  Beside Hotel Novotel, Near Iscon Circle, S G Highway, Ahmedabad – 380 015. Phone : +91 79 6134 0555

- **Bhopal**

  Plot No. 2, 221, 2nd Floor, Akansha Complex, Zone-1, M.P.Nagar, Bhopal– 462 011. Phone : +91 755 276 4202

- **Nagpur**

  Plot.No.174, H.No.4181/C/174, 1st Floor, Loksewa Housing Society, Near Dr. Umathe & Mokhare College,

  Bhamti Road,

  Lokseva Nagar, Nagpur – 440 022.

  Phone : +91 712 228 6991 / 228 9668

- **Pune**

  Pinacle 664 park avenue, 8th floor,

  Plot no 102+103, CTS No. 66/4,

  Final, 4, Law College Rd, Erandwane,

  Pune, Maharashtra – 411 004.

  Phone : +91 98225 36680

- **Bengaluru**

  No-58, First Floor, Firoze White Manor, Bowring Hospital Road,

  Shivajinagar, Bangalore -560 001.

  Phone : +91 80 6822 0000

- **Coimbatore**

  No. B-15, Thirumalai Towers, No. 723,

  1st Floor, Avinashi Road, Coimbatore – 641 018. Phone : +91 422 420 4018

- **Hyderabad**

  Prestige Phoenix Building,

  1st Floor, Survey no. 199,

  No. 6-3-1219/J/101 & 102, Uma Nagar, Opposite to Begumpet Metro Station Begumpet 500016

  Phone: +91 40 4567 1717/2341 4398/2341 4367

- **Kochi**

  Door No. 50/1107A9, JB Manjooran Estate, 3rd Floor, Bypass Junction,

  Edappally, Kochi – 682 024.

  Phone : +91 484 6604 710

- **Madurai**

  12/2, DSP Nagar,

  Dinamalar Avenue,

  Madurai – 625 016.

  Phone : +91 452 260 4555

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Service – **support.numeric@numericups.com**

Contact us.: 0484-3103266 / 4723266
www.numericups.com

## Documents / Resources

| | |
|---|---|
|   | NUMERIC Valura 1-3 kVA In Built Battery [pdf] Installation Guide<br>Valura 1-3 kVA In Built Battery, In Built Battery, Built Battery, Battery |

## References

- Home | Numeric UPS
- User Manual