

User Manual Easy UPS On-Line SRVS Series Extended Runtime 6000VA, 10000VA

Important Safety Information

Read the instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this document or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a Danger or Warning product safety label indicates that an electrical hazard exists that will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

A DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

A WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

A CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Safety and General Information

SAVE THESE INSTRUCTIONS

This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.

Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damages.

- This UPS is for indoor use only.
- Do not operate this UPS in direct sunlight, in contact with fluids, or where there is excessive dust or high humidity.
- Do not operate the UPS near open windows or doors.
- Be sure the air vents on the UPS are not blocked. Allow adequate space for proper ventilation.

Note: Allow a minimum of 20 cm clearance on all four sides of the UPS.

- Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power, and frequent discharges will shorten battery life. Follow the battery manufacturer recommendations.
- Connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.

Electrical Safety

- When grounding cannot be verified, disconnect the equipment from the utility power outlet before installing or connecting to other equipment. Reconnect the power cord only after all connections are made.
- Connection to the branch circuit (mains) must be performed by a qualified electrician.
- The protective earth conductor for the UPS carries the leakage current from the load devices (computer equipment). An insulated ground conductor is to be installed as part of the branch circuit that supplies the UPS. The conductor must have the same size and insulation material as the grounded and ungrounded branch circuit supply conductors. The conductor will be green and with or without a yellow stripe.
- The grounding conductor is to be grounded to earth at the service equipment, or if supplied by a separately derived system, at the supply transformer or motor generator set.

Battery Safety

A CAUTION

RISK OF HYDROGEN SULPHIDE GAS AND EXCESSIVE SMOKE

- Replace the battery at least every 5 years.
- Replace the battery immediately when the UPS indicates battery replacement is necessary.
- · Replace battery at the end of its service life.
- · Replace batteries with the same number and type of batteries as originally installed in the equipment.
- Replace the battery immediately when the UPS indicates a battery over-temperature condition, or UPS internal over-temperature, or when there is evidence of electrolyte leakage. Power off the UPS, unplug it from the AC input, and disconnect the batteries. Do not operate the UPS until the batteries have been replaced.

Failure to follow these instructions can result in minor or moderate injury and equipment damage.

- Servicing of user replaceable batteries should be performed or supervised by personnel knowledgeable about batteries and required precautions. In this case, batteries is not user replaceable.
- Schneider Electric uses Maintenance-Free sealed Lead Acid batteries. Under normal use and handling, there is no contact with the internal components of the batteries. Over charging, over heating or other misuse of batteries can result in a discharge of battery electrolyte. Released electrolyte is toxic and may be harmful to the skin and eyes.
- · Use tool with insulated handles.
- Wear rubber gloves and boots.
- Determine if battery is either intentionally or inadvertently grounded. Contact with any part of a grounded battery can result in electric shock and burns by high short-circuit current. The risk of such hazards can be reduced if grounds are removed during installation and maintenance by a skilled person.

Radio Frequency Warning

This is a product for commercial and industrial application in the second environment – installation restrictions or additional measures may be needed to prevent disturbances.

Product Description

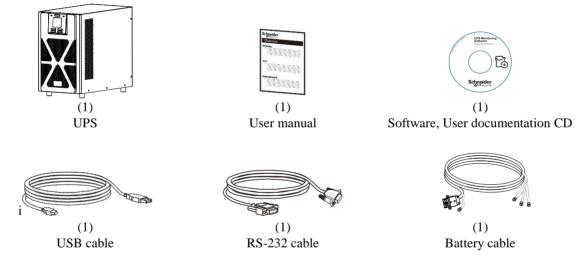
The Schneider Electric Easy UPS is a high performance, uninterruptible power supply (UPS). The UPS provides protection for electronic equipment from utility power blackouts, brownouts, sags, and surges and small utility fluctuations and large disturbances. The UPS also provides battery backup power for connected equipment until utility power returns to normal levels or the batteries are fully discharged.

This user manual is available on the enclosed documentation CD and on the Schneider Electric website, www.schneider-electric.com.

Package Contents

Read the Safety Guide before installing the UPS.

The packaging is recyclable; save it for reuse or dispose of it properly.



NOTE: The model and serial numbers are located on a small, rear panel label.

Optional Accessories

For optional accessories, refer to the Schneider Electric Website at www.schneider-electric.com.

Specifications

Environment Specifications

NOTICE

RISK OF EQUIPMENT DAMAGE

- UPS must be used indoors only.
- The installation location should be sturdy to withstand the weight of the UPS.
- Do not operate UPS where there is excessive dust or where the temperature or humidity are outside specified limits.

Failure to follow these instructions can result in equipment damage.

| Temperature | Operating | 0° to 40°C at rated load. 40° to 45°C linearly derated to 85% of maximum load capacity. 45° to 50°C linearly derated to 75% of maximum load capacity. | This unit is intended for indoor use only. Select a location sturdy enough to handle the weight. Do not operate UPS where there is excessive dust or where the |
|-------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Storage | -15° to 60°C | temperature or humidity are outside |
| Elevation | Operating | 0 - 1,000 m: normal operation 1,000 - 3,000 m: The load reduces @ 1% at an increased height of every 100 m > 3,000 m: UPS will not work | specified limits. Note: Charge the battery modules every six months during storage. (If applicable) |
| | Storage | 0 - 15,000 m | |
| Humidity | | 0 to 95% relative humidity, non- condensing | |
| IP Rating | | IP20 | |

Physical Specifications

| UPS model | SRVS Extended Runtime 6000VA | SRVS Extended Runtime 10000VA |
|----------------------------|--------------------------------------|--------------------------------------|
| Dimensions with package | 290 mm (11.42in) x 460 mm (18.11in) | 290 mm (11.42in) x 460 mm (18.11in) |
| Width x Height x Depth | x 491 mm (19.33 in) | x 570 mm (22.44 in) |
| Dimensions without package | 190 mm (7.48 in) x 336mm (13.23in) x | 190 mm (7.48 in) x 336mm (13.23in) x |
| Width x Height x Depth | 374 mm (14. 72 in) | 447 mm (17.6 in) |
| Weight with package | 16kg | 19.5kg |
| Weight without package | 13kg | 16.5kg |
| Lifting guidelines | < 18 kg (< 40 lb) | 18 - 32 kg (40 - 70lb) |
| | | |

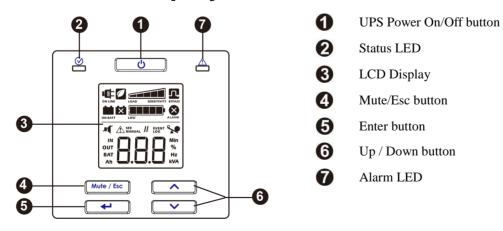
Input/Output Specifications

| UPS Model | | SRVS Extended Runtime 6000VA | SRVS Extended Runtime 10000VA | |
|------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------|--|
| Input | Voltage | 230 Vac Nominal | | |
| Input | Frequency | 50 Hz | / 60 Hz | |
| | Input Voltage Range (100% load) | 176 Vac – 3 | 300 Vac ± 3% | |
| | Input Voltage Range (60% load) | 110 Vac – 3 | 000 Vac ± 3% | |
| | Input Power Factor (100% resistive load) | ≥ 0.99 at 100% load | | |
| Input Protection | | Thermal ci | rcuit breaker | |
| Output | UPS Capacity | 6000 VA / 6000 W | 10000 VA / 10000 W | |
| Output | Nominal Output Voltage | 230 Vac | | |
| | Other Programmable Voltage | 220 Vac | c, 240 Vac | |
| | Efficiency at rated load | 94% max. | | |
| | Output Voltage Regulation | ± 1% static | | |
| | Output Voltage Distortion | 1% max. for full linear load,4% max. for full RCD load (100% VA, 0.8 PF) | | |
| | Frequency – On Battery | $50 \text{ Hz} \pm 0.1 \text{ Hz} / 60 \text{ Hz} \pm 0.1 \text{ Hz}$ | | |
| | Frequency – AC Mode | 50 Hz ± 4 Hz / 60 Hz ± 4 Hz | | |
| | Crest Factor | 3:1 | | |
| | Waveform | Sine | ewave | |
| | Output Connection | Terminal | | |
| | Bypass | Internal bypass | | |
| | Bypass Range | 185 Vac – 250 Vac ± 1% | | |

Battery

| UPS Model | SRVS Extended Runtime 6000VA | SRVS Extended Runtime 10000VA |
|----------------------|-------------------------------|----------------------------------|
| Configuration | Extern | al battery |
| Type | Sealed maintenance free (SMF) | Sealed maintenance free (SMF) 12 |
| | 12 V, 9 Ah | V, 9 Ah |
| Battery Bank Voltage | 240 V | 240 V |

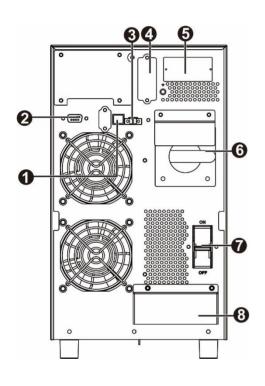
Front Panel Display

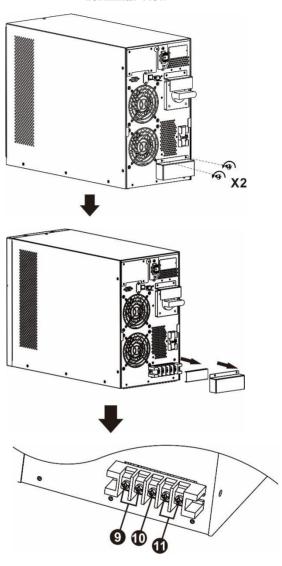


Rear Panel Features

SRVS Extended Runtime 6000VA/SRV Extended Runtime 10000VA

Terminal View

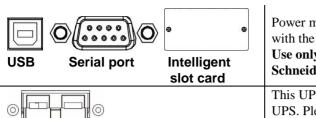




- 1 USB port
- **2** RS-232
- **3** Emergency Power Off (EPO)
- Battery connector
- 6 Intelligent card slot
- 6 Maintenance bypass

- 7 Input circuit breaker
- 8 Input/Output terminal (Please refer to Terminal view for the details.)
- Output terminals
- Ground terminal
- 11 Input terminals

Basic Connectors



Power management software and interface kits can be used with the UPS.

Use only interface kits symplical or approved by

Use only interface kits supplied or approved by Schneider Electric.

This UPS is not equipped internal battery. Before turn on the UPS. Please connect the battery by connecting battery cable to external battery.

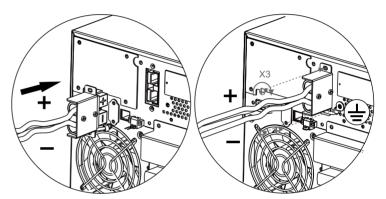
Start Up Settings

Connect the battery

Battery connector

Connect UPS to the external battery pack with a battery cable. Refer to right chart for external battery connection.

Please connect the battery according to the battery voltage indicated on the rear panel. If the connected battery voltage is incorrect, UPS may be damaged and cannot be repaired. Therefore, be sure to confirm that the battery voltage is in accordance with the UPS specification.



 Be sure to respectively connect red cable to the positive terminal and black cable to the negative terminal of external battery system. Be sure grounding (green cable) is connected firmly.

Set up battery charging current

This extended runtime UPS should be set up battery charging current according to the connected external battery pack numbers. Schneider Electric offers standard battery pack with 20 pieces of 12V9AH. When connecting to external battery pack, please follow below table to setup battery charging current.

| Connected battery pack numbers in parallel | 1 | 2 | 3 | ≧4 |
|--------------------------------------------|----|----|----|----|
| Charging current | 1A | 2A | 3A | 4A |

Connect power and equipment to the UPS

A CAUTION

HAZARD OF ELECTRIC SHOCK

- All electrical work must be performed by a qualified electrician.
- · Adhere to all national and local electrical codes.
- Disconnect the mains power and internal batteries before installing or servicing the UPS or connected equipment.
- UPS AC hardwired and pluggable outlets may be energized by remote or automatic control at any time.
- Do not use the UPS as safety disconnect.
- Turn off all power to this equipment before working on the equipment. Practice lockout/tagout procedures.
- Do not wear jewelry when working with electrical equipment.

Failure to follow these instructions can result in minor or moderate injury.

- 1. Connect equipment to the UPS. Avoid using extension cords.
- 2. Connect input utility power to the UPS.
- 3. Switch on the input utility power. Then, the UPS display panel will illuminate when utility power is available.

Start the UPS

Press the button located on the front panel of the UPS.

- The battery charges to 90% capacity during the first five hours of normal operation.
- Do not expect full battery run capability during this initial charge period.

Cold start the UPS

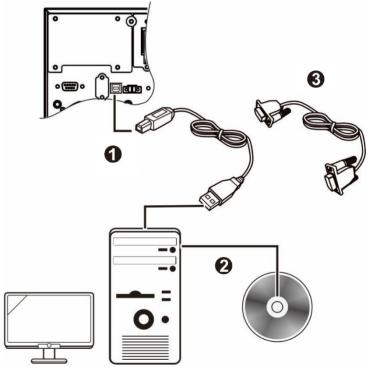
Use cold start feature to supply power to connected equipment from the UPS batteries.

Press the button. Then, the display panel will illuminate. Press the button again to supply battery power to the connected equipment.

Connect and install management software

Easy UPS SRVS is provided with SchneiderUPS management software for unattended operating system shutdown, UPS monitoring, UPS control and energy reporting. The following diagram is a representation of a typical server installation.

- 1. Connect the USB cable from the rear of the UPS to the protected device such as a server.
- 2. For a server or other device with an operating system, load the SchneiderUPS CD and follow the on-screen set-up instructions.
- 3. A built-in serial port is also available for additional communication options with serial cable.
- 4. Even more communication options are available via the built-in intelligent card slot. Refer to www.schneider-electric.com for more information.



Emergency Power Off

The Emergency Power Off (EPO) function is a feature that will immediately remove power to all connected equipment. When EPO button is pushed, all connected equipment will immediately turn off and will not switch to battery power.

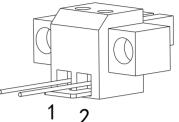
Adhere to all national and local electrical codes. Wiring must be performed by a qualified electrician.

The EPO switch is internally powered by the UPS for use with non-powered switches or potential free contacts.

Normally closed (N/C) contacts

- 1. Remove the EPO connector screws beneath pins 1 and 2.
- 2. Remove the metal link between pins 1 and 2.
- 3. Connect N/C relay contacts between pins 1 and 2 of the EPO terminal block. Use 0.5 to 1 mm² wire.
- 4. Secure the EPO connector screws beneath pins 1 and 2.

If the N/C is open, the UPS will turn off and power will be removed from the load.



NOTICE

EQUIPMENT DAMAGE

· Do not connect the EPO interface to any circuit other than a unused circuit.

Failure to follow these instructions can result in equipment damage.

The EPO interface is a Safety Extra Low Voltage (SELV) circuit. Connect it only to other SELV circuits. The EPO interface monitors circuits that have no determined voltage potential. Such closure circuits may be provided by a switch or relay properly isolated from the utility. To avoid damage to the UPS, do not connect the EPO interface to any circuit other than a unused circuit.

Use one of the following cable types to connect the UPS to the EPO switch.

- CL2: Class 2 cable for general use.
- CL2P: Plenum cable for use in ducts, plenums, and other spaces used for environmental air.
- CL2R: Riser cable for use in a vertical run in a floor-to-floor shaft.
- CLEX: Limited use cable for use in dwellings and for use in raceways.

Maintenance Bypass

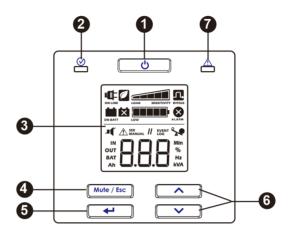
Maintenance bypass enables the user to isolate the electronic circuitry of the UPS from the mains and the load without interrupting the load operation by connecting the loads directly to the bypass utility supply.

- This feature is useful while performing maintenance or service and shall only be executed by authorized Technical Service Personnel.
- During Maintenance Bypass operation; in case of any mains interruption occurs, all loads on the output will be deenergized. Maintenance Bypass Operation should not be preferred for long time use.

Operation

Using The Display

These Easy UPS models are equipped with an intuitive and configurable LCD display. This display complements the software interface as they convey similar information and either may be used to configure the UPS settings. The display consists of the following keys and indicators:



| | UPS Power On/Off button | Press this button to turn on the UPS. |
|---|-------------------------|-------------------------------------------------------------------------|
| 4 | <u>o</u> | • Press and hold this button until a beep is heard to turn off the |
| U | | UPS. |
| | | Press this button to reset alarms. |
| | Status LED | The Status LED illuminates green when the power is on. This |
| _ | G \wedge | LED indicates two different states of output power: |
| 2 | | • Output off: LED blinks. Press Power On/Off button to |
| | | turn the output power on. |
| | | • Output on: LED illuminates green continuously. |
| | LCD Display | The display interface options are visible on this LCD screen. Press |
| 3 | | the or button to activate LCD, if the |
| | | display is not illuminated. |
| | Mute/Esc button | To acknowledge audible alarms and suppress them |
| 4 | Mute / Esc | temporarily. |
| | | • To exit a sub menu and return to the main menu. |
| A | Enter button | Press this button to enter the menu or to select a menu item/ value |
| 6 | ← | during navigation. |
| | Up / Down button | Press these two buttons to scroll through the main menu options and |
| 6 | | display screens. |
| | $\overline{}$ | |
| _ | Alarm LED | This Alarm LED illuminates red when the UPS detects an error and |
| 7 | \wedge | blinks red for UPS notifications. See "Alarms" on page 12 and |
| • | | "Notifications" on page 14 in this manual. |

LCD Display Icons

LOG

| | On Line: The UPS is drawing utility power and performing double conversion to supply power to the connected equipment. |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ON LINE | |
| ON BATT | On Battery: The UPS is supplying battery backup power to the connected equipment. |
| X | Replace Battery: The battery is not connected securely or the battery is nearing the end of its service life and should be replaced. |
| BYPASS | Bypass : The UPS is in bypass mode, sending utility power directly to connected equipment. Bypass mode operation is the result of an internal UPS event or an overload condition. Under this condition, see "Alarms" on page 12 and "Notifications" on page 14 in this manual. This icon in combination with Green Mode icon, indicates that the UPS is in green mode operation. |
| ALARM | System Alarms: An internal fault is detected. See "Alarms" on page 12 in this manual. |
| % | Overload: The equipment connected to the UPS is drawing more power than rated. |
| Low | Battery Charge: The battery charge level is indicated by the number of bar sections illuminated. When all five blocks are illuminated, the battery is fully charged. Each bar represents approximately 20% of the battery charge capacity. |
| LOAD SENSITIVITY | Load Level: The load percentage is indicated by the number of load bar sections illuminated. Each bar represents approximately 20% of the maximum load capacity. |
| | Mute: An illuminated line through the icon indicates that the audible alarm is disabled. |
| | Green Mode : An illuminated icon indicates that the unit is working in Green mode. The connected equipment is receiving the utility input directly as long as the input voltage and frequency are within the configured limits. |
| SEE MANUAL | Alarm or notification: The UPS has detected an error or the UPS is in configuration mode. See "Notifications" on page 14 in this manual. |
| EVENT | Event: The icon is illuminated when the user is viewing the event log. |

Alarms and System Errors

Status Indicators

| One beep every second | Low Battery State - The battery is nearing its complete discharge state. The UPS is about to shut down. |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| | Overload condition - The equipment connected to the UPS is drawing |
| | more power than rated. |
| 4 beeps every 30 sec | On Battery State - The UPS is supplying battery backup power to the |
| (first beep starts after 4 sec on battery) | connected equipment. |
| Beeper continuously on | Alarm State - UPS has detected an error. See "Alarms" on page 12 in this |
| | manual. |
| Two short beeps every 5 sec | Event Bypass State - UPS has detected an error. Connected equipment |
| | receives utility input power through the bypass relay. |

Alarms

| Display code | Description | Solution |
|--------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5[| UPS has experienced a short circuit at the output. Unit will try to autorecover from this condition. | Check if there is any short circuit at the UPS output. Remove the short circuit wait the unit auto-recover or Press button to start the UPS. Note: The power supplied to the connected equipment is dropped when the UPS is in this condition. |
| | UPS is experiencing an overload condition. | Disconnect nonessential equipment from the UPS to eliminate the overload condition. |
| 9[H | The UPS has detected a DC voltage error. Unit will try to auto-recover from this condition. | If the UPS does not recover automatically, contact Schneider Electric. |
| HoF | Temperature of the unit is rising above the set limits. | Disconnect nonessential equipment from the UPS to reduce the UPS load. Ensure that ambient temperature is within limits. Ensure that adequate clearance is maintained. |
| | UPS has detected a charger error. | Verify if there is any short circuit at the UPS battery terminal. Press button to start the UPS. |
| 65F | Bus start failure detected. | Contact your dealer. |
| 658 | Bus under | Contact your dealer. |
| h5[] | Bus unbalance | Contact your dealer. |

| Display code | Description | Solution |
|--------------|----------------------------------------------|----------------------|
| 1 5F | Inverter soft start failure detected | Contact your dealer. |
| UNF | High Inverter voltage | Contact your dealer. |
| INF | Low Inverter voltage | Contact your dealer. |
| 1 1111 | Negative power alert | Contact your dealer. |
| -0[| Inverter over current | Contact your dealer. |
| SPS | SPS abnormal | Contact your dealer. |
| | Battery SCR short circuited | Contact your dealer. |
| 1-5 | Inverter relay short circuited | Contact your dealer. |
| [[F | CAN communication alert | Contact your dealer. |
| | CAN communication alert | Contact your dealer. |
| | CPU communication failure detected | Contact your dealer. |
| SbF | Battery turn-on failure detected | Contact your dealer. |
| PbF | PFC current failure detected in battery mode | Contact your dealer. |
| buF | Bus voltage changes too fast | Contact your dealer. |
| | Current detect alert | Contact your dealer. |

Contact Schneider Electric for all other alarm codes.

Notifications

| Display code | Description | Solution |
|--------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| P9[| Battery is not connected. | Connect battery to the UPS. See "Start Up Settings" on page 7 in this manual. |
| 00 | Over charge | Contact your dealer. |
| | UPS is overload. Devices connected to the UPS are fed directly by the electrical network via the bypass. | Remove excess loads from UPS output. |
| FF | Fan failure detected. | Contact your dealer. |
| EPO | EPO enabled. | Set the circuit in closed position to disable EPO function. |
| <u>bL</u> | Low battery. | Contact your dealer. |
| 0F | Over temperature | Contact your dealer. |
| [HF | Charger failure detected | Contact your dealer. |
| Ld | Line situations are different in parallel system | Contact your dealer. |
| Pq | Bypass situations are different in parallel system | Contact your dealer. |
| OLB | Locked in bypass after overload 3 times in 30 minutes. | Contact your dealer. |
| | Cover of maintenance bypass is open. | Contact your dealer. |
| FU | Bypass unstable | Contact your dealer. |

UPS Display Parameters

Operational data displayed in the display panel is given in the table. Navigate using the or button.

| Parameter | Units | Indicator Icons |
|------------------------------------------------------|---------|------------------------|
| Output voltage | Vac | OUT, V |
| Output frequency | Hz | OUT, Hz |
| Input voltage | Vac | IN, V |
| Input frequency | Hz | IN, Hz |
| Battery voltage | V DC | BAT, V |
| Charging current | A | BAT, A |
| Ambient temperature | ° C | NUMBER, C |
| State of battery charge | % | BAT, % |
| Load level in percentage (Maximum of Watts or VA) | % | OUT, % |
| Load level in kVA | kVA | OUT, kVA |
| Total Ah capacity of connected battery | Ah | BAT, Ah |
| Remaining On Battery runtime | Minutes | BAT, Min |
| Ah capacity of connected battery | Ah | BAT, AH |

Configuration

Configure UPS Parameters

| T 11 | . 1 | | | C* | | | . 1 | TIDO |
|--------|-----|-------|---------------|-----------|------------|-----|-----|--------|
| HOLLOW | the | etane | tΛ | CONTIGUE | parameters | 1n | the | I IPC. |
| I OHOW | uic | SICPS | $\iota \circ$ | Cominguic | parameters | 111 | uic | OI D. |

- 1. Press the button.
- 2. Press the or button to navigate to "Set".
- 3. Press the button.
- 4. Navigate through the parameters using the or button.
- 5. Press the button to edit a parameter. Icons start flashing to indicate the editing.
- 6. Press the parameter. button to navigate between the options available for the selected
- 7. Press the button to select the option or Flashing of icons stops after this.
- 8. Press the or button to navigate between parameters.
- 9. Press the Mute / Esc button to exit menu navigation.

UPS Settings

Configure UPS settings using the display interface. See "Configure UPS parameters" section to edit the parameters.

| Function | Factory Default | User Selectable Options | Description |
|------------------|------------------------|--------------------------------|-----------------------------------------------------------------------------------|
| Output voltage | 230 Vac | 220, 230, 240 Vac | Allows the user to select output voltage |
| | | | while the UPS is operating online. |
| Audible alarm | Enable | Enable, disable | UPS will mute audible alarms when setting to |
| | | | disable or when the display panel MUTE |
| | | | button is pressed. |
| Green mode/ | Disabled | Enable/Disable | When this mode is enabled, connected |
| high efficiency | | | equipment receives utility input power |
| mode | | | through the bypass relay as long as input |
| | | | voltage is within the range of \pm 5% of |
| | | | configured output voltage and ± 4 Hz of |
| | | | configured output frequency. Inverter is |
| | | | turned off during this mode. |
| | | | If utility power input goes out of range, |
| | | | inverter is turned on. The load is |
| | | | transferred to online mode. The power to |
| | | | the connected equipment may be |
| | | | interrupted up to 10 milliseconds. |
| Battery Ah | 9 Ah | 7~200 Ah | Allows the user to set the l Ah of the each |
| capacity | | | battery connected to UPS. |
| Charging current | 1 A | 1 to 4 A | Set up charging current of the charger. |
| Output voltage | 230 Vac | 220 ±0~9 V | You may choose or to adjust |
| adjustment | | 230 ±0~9 V | Output voltage. |
| | | 240 ±0~9 V | This Parameter can set in Line Mode or Battery |
| | | | Mode. |
| Inverter | Add 0 | Add 000~09.9V | You may choose Add or Sub to adjust inverter |
| voltage | | Sub 000~09.9V | voltage. The voltage range is from 0V to 9.9V |
| adjustment | | | and the default value is 0V. This Parameter can set in Line Mode or Battery Mode. |

| Advance Display Navigation |
|-----------------------------------|
|-----------------------------------|

There are five options in main menu and two sub-menu options in UPS display. Press the button from the Home Screen to access these menu options. Use the or button to navigate between the menu options.

| • | | | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Menu Option | Description | | |
| 5EL | Configure the UPS Use this menu option to configure the UPS parameters. Press the button to see the configuration options. See "Configure UPS parameters" on page 15 for details. Press the button to return to the Home Screen. | | |
| | Use this menu option to see the UPS event log. The UPS records the last 10 events and displays the codes in this log. Press the button to see the log. Use the or button to see the logged events. The button navigates towards old events and the button navigates to new events. Every log entry has a numeric and textual event code. At the end of the log, the word "End" will be displayed. Press the Multe / Esc button to return to the Home Screen. | | |
| UP5 | Show UPS information Use this menu option to see the UPS information. Press the button to see the rating of the UPS. Press the button to see the UPS firmware version. Press the hutton to return to the Home Screen. | | |
| 64P | User Command to bypass Use this menu option to switch the UPS to bypass mode or bring the UPS to online mode from bypass mode. Press button: Put: Use to switch the UPS to bypass mode of operation. Note: Power to the connected equipment will drop, if the mains voltage is not within the threshold limits. Out: Bring the UPS out of bypass and restore clean power to the connected equipment. | | |
| <u>LSL</u> | Execute Battery Self-Test Use this menu option to conduct a self-test and determine the battery status. Press the button to initiate the test. If the test command is accepted, the UPS will initiate a self-test and will start a count down on the display. Display messages are shown at the end of the test. Test refused. The output is off or battery is not charged. Test not passed Test passed Press the Mute/Esc button to return to the Home Screen | | |

Troubleshooting

Use the table below to solve minor installation and operation problems. Refer to the Schneider Electric website, www.schneider-electric.com for assistance with complex UPS problems.

| Check that the power cable from the UPS to the utility power supply. Check that the power cable from the UPS to the utility power supply is securely connected at both ends. See "Start Up Settings" on page 7 in this manual. Press the input thermal circuit breaker reset button in the rear panel. The UPS is operating on battery, while connected to the input utility power There is high, low, or distorted input voltage or frequency. Connect the UPS to a different outlet on a different circuit. Test the utility input power to ensure the unit is receiving input power. If display is on, navigate and check the input voltage and frequency. UPS, when connected to battery, is not supplying power to the connected equipment The UPS is not turned on. If the UPS has shutdown (the display is not on), follow the procedure "Cold start the UPS" on page 8. Connect battery to the UPS. See "Start Up Settings" on page 7 in this manual. Wait for the utility power after utility power returns, press obstancy. Wait for the utility power after utility power returns, press obstancy. UPS has detected an error. See "Alarms" on page 12 and "Notifications" on page 14 in this manual. Alarm LED is illuminated. The UPS displays an alarm message and emits a constant beeping sound The UPS has detected an error. See "Alarms" on page 12 and "Notifications" on page 14 in this manual. No audible sounds from UPS even when the Alert LED is illuminated. Change the UPS configuration to enable audible alarms. UPS is not providing expected backup time. | Problem and/or Possible Cause | Solution | | |
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| The UPS has detected an error. See "Alarms" on page 12 and "Notifications" on page 14 in this manual. No audible sounds from UPS even when the Alert LED is illuminated. Audible alarm is disabled. Change the UPS configuration to enable audible alarms. UPS is not providing expected backup time. | on battery. | "Notifications" on page 14 in this manual. | | |
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| Audible alarm is disabled. Change the UPS configuration to enable audible alarms. UPS is not providing expected backup time. | The OFS has detected all error. | this manual. | | |
| UPS is not providing expected backup time. | No audible sounds from UPS even when the | Alert LED is illuminated. | | |
| | Audible alarm is disabled. | Change the UPS configuration to enable audible alarms. | | |
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| | power outage. | | | |
| proper recharging or when operated at elevated | | | | |
| temperatures. | | temperatures. | | |
| The battery is near the end of its service life. If the battery is near the end of its service life, consider | The battery is near the end of its service life. | If the battery is near the end of its service life, consider | | |
| | | replacing the battery, even if the replace battery indicator is | | |
| not illuminated. See "Start Up" on page 8 in this manual. | | not illuminated. See "Start Up" on page 8 in this manual. | | |

| Problem and/or Possible Cause | Solution | | |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| UPS is not turning off | | | |
| POWER OFF button not pressed properly | Press and hold the button until the beep is heard to power off the UPS. | | |
| Utility input power is available. | UPS logic power can not be turned off if utility input power is available. To turn off the UPS, turn off utility input power and press button. Release when a beep is heard. | | |
| UPS is in Bypass mode and the LED is not | t illuminated red. | | |
| UPS is in green mode. | Disable green mode if not desired. | | |
| UPS is configured to stay in the bypass mode. | Change the configuration to exit bypass mode. | | |
| UPS is in bypass mode even after over temperature alarm is cleared. | Reduce the connected load to <70% to bring the UPS to online mode. | | |
| The UPS has experienced an overload condition and transferred to bypass. | Connected equipment exceeds the "maximum load" as defined in specifications on the Schneider Electric Website, www.schneider-electric.com. The alarms remain on until the overload condition is corrected. Disconnect nonessential equipment from the UPS to eliminate the overload condition. The UPS continues to supply power as long as it is in bypass mode and the circuit breaker does not trip. The UPS will not provide battery power in the event of a utility voltage interruption. | | |
| UPS detected an error and transferred to bypass. | See "Alarms" on page 12 and "Notifications" on page 14 in this manual. | | |

Transport

- 1. Shut down and disconnect all connected equipment.
- 2. Disconnect the unit from mains power.
- 3. Disconnect all internal and external batteries (if applicable).
- 4. Follow the shipping instructions outlined in the Service section of this manual.

Service

If the unit requires service, do not return it to the dealer. Follow these steps:

- 1. Review the *Troubleshooting* section of the manual to eliminate common problems.
- 2. If the problem persists, contact Schneider Electric Customer Support through the Schneider Electric website, **www.apc.com**.
 - a. Note the model number and serial number and the date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the LCD display on select models.
 - b. Call Customer Support. A technician will attempt to solve the problem over the phone. If this is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
 - c. If the unit is under warranty, the repairs are free.
 - d. Service procedures and returns may vary internationally. For country specific instructions refer to the Schneider Electric website, www.apc.com.
- Pack the unit properly to avoid damage in transit. Never use foam beads for packaging.
 Damage sustained in transit is not covered under warranty.

 Note: Before shipping, always disconnect battery modules in a UPS or external battery pack.
 The disconnected internal batteries may remain inside the UPS or external battery pack.
- 4. Write the RMA# provided by Customer Support on the outside of the package.
- 5. Return the unit by insured, prepaid carrier to the address provided by Customer Support.

Limited Factory Warranty

Schneider Electric IT Corporation (SEIT), warrants its products to be free from defects in materials and workmanship for a period of two (2) years from the date of purchase. The SEIT obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. Repair or replacement of a defective product or part thereof does not extend the original warranty period.

This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase. Products may be registered online at warranty.apc.com.

SEIT shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user or any third person misuse, negligence, improper installation, testing, operation or use of the product contrary to SEIT recommendations of specifications. Further, SEIT shall not be liable for defects resulting from: 1) unauthorized attempts to repair or modify the product, 2) incorrect or inadequate electrical voltage or connection, 3) inappropriate on site operation conditions, 4) Acts of God, 5) exposure to the elements, or 6) theft. In no event shall SEIT have any liability under this warranty for any product where the serial number has been altered, defaced, or removed.

EXCEPT AS SET FORTH ABOVE, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, APPLICABLE TO PRODUCTS SOLD, SERVICED OR FURNISHED UNDER THIS AGREEMENT OR IN CONNECTION HEREWITH.
SEIT DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY, SATISFACTION AND FITNESS FOR A PARTICULAR PURPOSE.

SEIT EXPRESS WARRANTIES WILL NOT BE ENLARGED, DIMINISHED, OR AFFECTED BY AND NO OBLIGATION OR LIABILITY WILL ARISE OUT OF, SEIT RENDERING OF TECHNICAL OR OTHER ADVICE OR SERVICE IN CONNECTION WITH THE PRODUCTS.

THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES. THE WARRANTIES SET FORTH ABOVE CONSTITUTE SEIT'S SOLE LIABILITY AND PURCHASER EXCLUSIVE REMEDY FOR ANY BREACH OF SUCH WARRANTIES. SEIT WARRANTIES EXTEND ONLY TO ORIGINAL PURCHASER AND ARE NOT EXTENDED TO ANY THIRD PARTIES.

IN NO EVENT SHALL SEIT, ITS OFFICERS, DIRECTORS, AFFILIATES OR EMPLOYEES BE LIABLE FOR ANY FORM OF INDIRECT, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, ARISING OUT OF THE USE, SERVICE OR INSTALLATION OF THE PRODUCTS, WHETHER SUCH DAMAGES ARISE IN CONTRACT OR TORT, IRRESPECTIVE OF FAULT, NEGLIGENCE OR STRICT LIABILITY OR WHETHER SEIT HAS BEEN ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES. SPECIFICALLY, SEIT IS NOT LIABLE FOR ANY COSTS, SUCH AS LOST PROFITS OR REVENUE, WHETHER DIRECT OR INDIRECT, LOSS OF EQUIPMENT, LOSS OF USE OF EQUIPMENT, LOSS OF SOFTWARE, LOSS OF DATA, COSTS OF SUBSTITUANTS, CLAIMS BY THIRD PARTIES, OR OTHERWISE.

NOTHING IN THIS LIMITED WARRANTY SHALL SEEK TO EXCLUDE OR LIMIT SEIT LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM ITS NEGLIGENCE OR ITS FRAUDULENT MISREPRESENTATION OF TO THE EXTENT THAT IT CANNOT BE EXCLUDED OR LIMITED BY APPLICABLE LAW.

To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support. Customers with warranty claims issues may access the SEIT worldwide customer support network through the Schneider Electric website: **www.schneider-electric.com**. Select your country from the country selection drop down menu. Open the Support tab at the top of the web page to obtain information for customer support in your region. Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase.

Schneider Electric Worldwide Customer Support

Customer support for this or any other Schneider Electric product is available at no charge in any of the following ways:

- Visit the Schneider Electric website to access documents in the Schneider Electric Knowledge Base and to submit customer support requests.
- www.apc.com (Corporate Headquarters)
 - Connect to localized Schneider Electric websites for specific countries, each of which provides customer support information.
- www.apc.com/support/
 - Global support searching Schneider Electric Knowledge Base and using e-support.
- Contact the Schneider Electric Customer Support Center by telephone or e-mail.
- Local, country specific centers: go to www.apc.com/support/contact for contact information.

For information on how to obtain local customer support, contact the Schneider Electric representative or other distributor from whom you purchased your Schneider Electric product.