

IMPORTANT SAFETY INSTRUCTIONS

CAREFULLY READ BEFORE FIRST USE. SAVE THESE INSTRUCTIONS. This manual contains important safety instructions that must be followed to avoid fire, property damage, personal injury, or death. The warnings, precautions, and instructions mentioned in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator. Failure to heed these warnings may affect the warranty.

CAUTION! TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS:

- Plug the UPS into a 2-pole, 3-wire grounded receptacle (wall outlet). Make sure the wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands (e.g. air conditioner, refrigerator, copier, etc.). Do not use if the supply cord or plug is damaged. Always unplug the power cord by the plug, never by tugging at the cable.
- Do not remove the cover except to service the battery. When replacing the battery, use the same number and type of battery. No user serviceable parts inside except for battery. Servicing of user replaceable batteries should be performed or supervised by personnel knowledgeable about batteries and required precautions. Do not attempt to add external batteries to the UPS.
- Although the UPS may be unplugged from the utility power, hazardous voltage may still be present through the battery. Always turn off the unit and unplug it from the AC power source before servicing the battery.
- Do not cover the UPS' cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as space heaters or furnaces. Do not allow the UPS to be exposed to moisture, rain excessive heat, or direct sunlight. Do not allow liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels (i.e., aquariums) on or near the unit. Condensation from liquids can cause the unit to short circuit.
- Install in a temperature and humidity controlled indoor area free of conductive contaminants. Keep on a flat stable surface.
- In the event of an emergency, press the OFF button and disconnect the power cord from the AC power.
- Do not dispose of batteries in a fire, the battery may explode. Do not open or mutilate batteries. Released material is harmful to the skin and eyes and may be toxic.
- Do not attach non-computer-related items, such as medical, life-support, or nuclear equipment, microwave ovens, or vacuum cleaners to UPS. Do not use in any circumstance that would affect operation or safety of any life support equipment or with any medical applications or patient care.
- Always adhere to all local and national electrical codes.
- Risk of suffocation, choking, or electric shock. Do not allow people with reduced sensory, physical, or mental capacity, children, or pets play with the plastic bag, packaging material, or battery that was included with your unit.
- Do not use the UPS on any transportation such as airplanes or ships. Shocks or vibrations caused during transit and the damp environment can cause the unit to short out.
- Do not use with extension cords, an accessory surge protector, into its own output, or "daisy-chain" in serial fashion with other power strips, UPS, surge protectors, or extension cords.
- Do not use the UPS other than its intended use.
- Use tools with insulated handles. Do not handle any metallic connector before power has been disconnected when servicing. Always remove metallic objects such as wristwatches and jewelry such as rings when replacing the battery.
- Please recycle used batteries in accordance with local ordinances or regulations. Do not dispose battery with regular household waste; batteries are considered hazardous waste. Remove the battery from the UPS before disposal. Visit <https://www.cairecycle.ca.gov/> to find a local recycling center.

INSTALLING YOUR UPS SYSTEM

OVERVIEW

Thank you for purchasing the Power Personal Series from Maruson. The Power Personal Series provides battery backup during power outages, surge protection, and protection from power sags. In the event of a power outage, the UPS will provide consistent power to your computer system and its included software ('BS' models only) will automatically save your open files and shut down your computer system during a utility power loss.

UNPACKING

Inspect the package contents upon receipt. Notify the carrier if there is any damage. The box should contain the following: (1) UPS and (1) User Manual. Select models will also include (1) USB Communication Cable. Software for models available for download online.

USE GUIDE

- Make sure that the total Volt-Amp (VA) requirements of your computer, monitor, and peripheral equipment does not exceed the rated capacity. There are many factors that can affect the amount of power that your computer system will require. For optimal system performance keep the connected load below 80% of the UPS's rated capacity.
- Ensure that the equipment plugged into the battery power-supplied outlets does not exceed the UPS unit's rated capacity. If rated unit capacities are exceeded, an overload condition may occur and cause the UPS unit to shut down and/or the circuit breaker to trip.
- Your new UPS may be used immediately upon receipt. However, recharging the battery for at least eight (8) hours when first receiving the new unit is recommended to ensure that the battery's maximum charge capacity is achieved. Charge loss may have occurred during shipping and storage. To recharge the battery, simply leave the unit plugged into an AC outlet. Your UPS is equipped with an auto-charge feature. When the UPS is plugged into an AC outlet, the battery will automatically recharge.
- With the UPS unit off and unplugged, connect the computer, monitor, and any equipment into the battery power supplied outlets. **Never plug a laser printer, copier, space heater, vacuum, paper shredder or other large electrical device into the battery power supplied outlets.** The power demands of these devices will overload and possibly damage the unit or connected device, which will not be covered under warranty.
- To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times. To store your UPS for an extended period, fully charge the battery before storing. Recharge the battery every three months to ensure battery life.

- Battery life and runtime will vary based on battery age, maintenance, altitude, ambient temperatures, power quality AC power, and frequency of shorts to the UPS.

FEATURES

1. Power / Mute Button

Press and hold the button for 2 seconds to turn the UPS on or off. You will hear 1 short beep when you turn the UPS on or 2 short beeps when it turns off.

To mute or unmute the audible alarm, press the button twice quickly. The UPS will beep once when the alarm is turned on. The default setting for the audible alarm is unmuted. If the alarm is muted, no audible alert will be made when the UPS reaches low battery state.

2. LED Indicators

Three LED indicators provide status updates included AC Mode, Battery Mode, and Fault. Refer to the Status Indicators section for further details.

3. Battery Backed & Surge Protected Outlets

These outlets provide battery power and surge protection in the event of a power disturbance and your AC power is cut off.

4. Surge Protected Outlets

These outlets provide surge protection to connected equipment.

5. Input Power Cord

Utility power cord.

6. USB Communication Port (select models only)

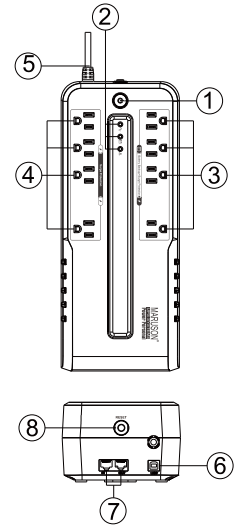
This port allows connection and communication between the USB port on your computer and UPS unit. Use the included USB cable to connect your UPS and computer and download the software online if you want to use the power management feature.

7. Phone/Fax/Network Ports (RJ-11/45 Combo Ports) (select models only)

Suppresses surges in phone, fax, and network cables. Connect the phone or network cable from the phone or network service to the "IN" port. Connect a second cable from the "OUT" port from the UPS to your phone, fax, or network equipment.

8. Input Circuit Breaker

The circuit breaker provides overload and fault protection. In the event of an overload and the circuit breaker trips, turn off the UPS then unplug at least one piece of equipment from the UPS outlet. Wait 10 seconds before depressing the circuit breaker and turn the UPS on again.



SOFTWARE DOWNLOAD (SELECT MODELS ONLY)

Select models include software to configure your UPS settings and provide essential power information at a glance. You must connect the USB cord to your computer and UPS in order to use these features.

To download the software, go to www.MarusonUSA.com > select **Support** from the navigation bar > select **Software** from the left local navigation bar > download software for your model > follow on-screen instructions to complete setup. You must restart your computer to see the installed software. The software will show up as a blue icon located in your computer's system tray after restarting.

STATUS INDICATORS

LED Indicator	Audible Alarm	Description of Status
Solid green	Off	Operating Normally: No abnormal conditions detected.
Flashing yellow	Beeps every 30s	Utility Power Failure: The UPS is using battery power to power the battery backed outlets.
	Beeps every 2s	Utility Power Failure: The UPS is using battery power to power the battery backed outlets and will run out of power shortly.
Flashing red	Beeps every 0.5s	Overload: The connected equipment exceeds the rating of the unit. Turn the UPS off and unplug at least one piece of equipment from the UPS. Reset the circuit breaker (press the red button on the side of unit to reset).
Solid red	Beeps continuously	Fault: Occurs when the UPS fails. Unplug connected equipment and restart the UPS. Contact Technical Support if Fault error is not resolved.

FCC / IC COMPLIANCE STATEMENT

This device complies with Part15 of the FCC Rules and Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Important: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAN ICES-3 (B)/NBM-3(B)

TECHNICAL SPECIFICATIONS

Model	POP-420B	POP-625BS (Basic)	POP-625BS	POP-825BS
Capacity	420VA / 210W	625VA / 330W	625VA / 330W	825VA / 450W
Input Voltage Range	96 – 138 Vac			
Frequency Range	47 – 63 Hz (auto sensing)			
On-Battery Output Wave Form	Simulated Sine Wave			
On-Battery Output Voltage	100 – 127 Vac +/- 10%			
On Battery Output Frequency	50/60 Hz +/- 1%			
Battery Type	Sealed Maintenance-Free Lead Acid Battery			
Battery Size	12V / 4.5Ah x 1		12V / 6Ah x 1	
Battery Recharge Time	Typically, 8 Hours			
Overload Protection	On-Utility: Circuit Breaker and Internal Current Limiting; On-Battery: Internal Current Limiting			
Surge Protection	Yes			
USB Communication Port	No		Yes	
Power Management Software	No		Yes, Windows® 10/9/7, Server® 2012 R2/2008 R2, Linux®, Mac®	
Auto-Charger	Yes			
Auto-Restart	Yes			
Operating Temperature	32 up to 104 °F / 0°C up to 40°C			
Operating Relative Humidity	0 to 90% Non-Condensing			
Dimensions (DWH)	12.0 x 4.9 x 3.3 in / 305 x 125 x 84 mm			

TROUBLESHOOTING

Problem	Possible Cause	Solution
AC power is available, but the outlets stopped providing power to connected equipment.	Circuit breaker tripped due to an overload.	Turn the UPS off and unplug at least one piece of equipment. Reset the circuit breaker by depressing the red button. Turn the UPS on.
The battery does not perform to the expected runtime.	Battery is not fully charged or has not recharge fully since last time battery backup mode. End of battery service life.	Allow the UPS to recharge fully by leaving the UPS plugged in. Replace battery or contact support@marusonusa.com
The UPS will not turn on.	The power switch is designed to prevent damage by rapidly powering it off and on. End of battery service life. Mechanical problem.	Turn the UPS off. Wait 10 seconds before turning the UPS on. Replace battery or contact support@marusonusa.com Contact support@marusonusa.com

PRODUCT REGISTRATION & LIMITED WARRANTY (USA & CANADA)

The POP-420B / POP-625BS (Basic) / POP-625BS / POP-825BS Products (individually and collectively, the "Product") includes limited warranties Maruson Technology Corporation (referred to herein as "Maruson") for customers in the United States or Canada who register their product within fifteen (15) days of the invoice date. These limited warranties are only for the original end-user ("Original Purchaser"). Please retain a copy of your receipt as proof of purchase. All Connected Equipment Warranty claims must be made within ten (10) days of occurrence. If you need to file a claim, fill out the RMA form online from the Maruson website first. Terms and conditions apply. Visit our website for details. To register your product, go to www.MarusonUSA.com>**Support**>**Registration** (left column).

Maruson warrants the Original Purchaser of this Product that the product is free from defects in materials and workmanship under normal use and service for which the product was designed for a period of three (3) years for Limited Product and (2) years for Limited Battery Warranty. Additionally, this Product includes three (3) years Limited Connected Equipment Warranty. The limited warranties start date is based on the date of purchase. If, in the opinion of Maruson, the UPS or battery is defective and defective within the scope of this warranty, Maruson's sole obligation will be to repair or replace the defective UPS or battery. No salesperson, employee, or agent of Maruson is authorized to add to or vary the terms of the warranties. By using the Product, you agree to the terms of the Limited Warranty. The duration of warranty coverage does not pause, restart, or extend if the Product is with Maruson or any of its dealers for evaluation, servicing, repairs, or if a replacement part or unit is provided.

The Connected Equipment Warranty is a Limited Warranty, subject to the limitations and exclusions set forth herein and only covers claims from damage of any properly connected equipment due to failed AC protection circuitry from a transient surge. Furthermore, the Connected Equipment Warranty is not deemed "first dollar" coverage. It is secondary. If you have any other source of payment for your loss, such as insurance, another warranty, or an extended warranty or purchase protection plan ("Primary Coverage"), Maruson will pay only to the extent that the Primary Coverage does not cover the loss. Maruson's obligation is reduced by any amounts that you are entitled to recover from the Primary Coverage, whether or not you make a claim for recovery under the Connected Equipment Warranty. The cumulative limit to be paid by Maruson under this warranty is up to USD 25,000.

Maruson will spend to repair or replace the damaged connected equipment, at Maruson's option, an amount equal to the fair market value of the damaged equipment or the original purchase price of the equipment, whichever is less. The fair market value of the equipment shall be the current value for the equipment specified in the most recent edition of the Orion Blue Book by Orion Research Corporation or on eBay. Whenever claims are settled, Maruson reserves the right to be subrogated under any existing insurance policies the claimant may have.

If any payment is required as part of a service, Maruson's obligations under this warranty are expressly conditioned upon receipt by customer of all payments due to it (including interest charges, if any). During such time as Maruson has not received payment of any

amount due to it for the Product, in accordance to the contract terms under which the Product is sold, Maruson shall have no obligation under this warranty.

WHAT IS NOT COVERED

Maruson shall not be liable for costs, damages, or repairs incurred as a result of, due to, or from:

- Warranty for purchase of unit from unauthorized dealers, second-hand units, or units that were transferred.
- Improper usage, operation, handling, storage, tampering, misuse, abuse, lack of maintenance, inappropriate on-site operating conditions, installation contrary to Maruson's recommendations or specifications, and/or use of the UPS or connected equipment not in accordance with the User Manual.
- Failure or damage from fire, flood, wind, rain, rising water, theft, vandalism, lightning, or other acts of God, leakage or breakage of plumbing, harsh chemical action, intentional misconduct on the part of the consumer, accident, dropping the device, abuse or other abnormal conditions, or unauthorized modifications.
- Normal wear and tear, including normal wearing parts such as the power cord (or where external damage or abuse was diagnosed) or natural reduction of battery discharge time due to battery age and/or use.
- Damage from lightning or power transients. Damage from causes other than AC power line transients, spikes, or surges on properly installed, grounded and code-compliant 120Vac power lines; transient surges or spikes on standard telephone land lines, PBX telephone equipment, or base 10T ethernet lines, when properly installed.
- Economic loss or special, indirect, or consequential including without limitations; loss, distortion, or damage to data, records, or software or the restoration of data or records, or the restoration of software, whether or not on account of product failure, virus, spyware, corruption or any other situation, or reimbursement for labor, gaining access, removal, installation, temporary power or any other expenses, which may be incurred in connection with repair or replacement.
- Damage as a result of use not in accordance with the rating plate.
- Product with the serial number altered, removed, or that is illegible.
- Damage to or from connected equipment that has been modified or not used in accordance to the equipment's user manual.
- Packaging and shipping cost to ship from the customer to Maruson for warranty service, testing, service removal, or any installation of items.
- Lost or misdirected shipments.

DISCLAIMER OF WARRANTIES, INCLUDING WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR PARTICULAR PURPOSE: EXCEPT AS SPECIFICALLY SET FORTH HEREIN, NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, IS MADE AS TO THE UPS. EXCEPT AS EXPRESSLY SET FORTH HEREIN, MARUSON AND/OR ITS AFFILIATES EXPRESSLY DISCLAIMS, WITHOUT LIMITATION, ANY STATUTORY WARRANTIES AND ALL IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL MARUSON, ITS AFFILIATES, ASSOCIATES, DEALERS, AGENTS OR SUPPLIERS OR THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES AND ASSIGNS BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT, EXEMPLARY, PUNITIVE, SPECIAL, CONSEQUENTIAL, OR MULTIPLE DAMAGES SUCH AS, BUT NOT LIMITED TO BUSINESS INTERRUPTION, LOST BUSINESS OR PROFITS, PERSONAL INJURY, LOSS OF ABILITY TO USE THIRD PARTY PRODUCTS OR SERVICES, FAILURE TO MEET ANY DUTY INCLUDING OF GOOD FAITH OR REASONABLE CARE, NEGLIGENCE, OR LOSS OF DATA ARISING OUT OF THE SALE, USE, OR INABILITY TO USE OF ANY MARUSON UPS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL THE TOTAL AGGREGATE LIABILITY OF MARUSON, ITS AFFILIATES, ASSOCIATES, DEALERS, AGENTS OR SUPPLIERS TO YOU FOR ALL DAMAGES EXCEED THE PRICE YOU PAID FOR THE PRODUCT. THIS LIMITATION IS CUMULATIVE AND WILL NOT BE INCREASED BY THE EXISTENCE OF MORE THAN ONE INCIDENT OR CLAIM. THE FOREGOING LIMITATIONS WILL APPLY EVEN IF ANY WARRANTY OR REMEDY PROVIDED SHALL FAIL OF ITS ESSENTIAL PURPOSE. NOTHING IN THIS SECTION SHALL LIMIT THE LIABILITY OF MARUSON IN RELATION TO DEATH OR BODILY INJURIES. THE PRODUCTS LISTED IN THIS WARRANTY ARE NOT FOR USE IN CONNECTION WITH ANY NUCLEAR, MEDICAL, LIFE-SUPPORT AND RELATED APPLICATIONS.

This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damage, so the limitations stated may not apply to you. The English version of this warranty and policy will always prevail if there are inconsistencies with a translated version.

SUPPORT

If the unit requires service or you are having difficulty using the unit, do not return to the dealer if you are in the US or Canada. Instead, follow these steps to try to resolve the issue. If you are located outside the US or Canada, contact your local supplier for help resolving.

1. Review the Troubleshooting section of the manual to see if that resolves the issue.
2. Contact Maruson Technical Support at +1-800-627-8766 or support@marusonusa.com. We're available Monday through Friday, 9 AM to 5 PM (Pacific Time). We will need your model number, serial number, and description of issue for support.
 - a. If we are unable to resolve the issue over phone or email, the technician will issue a Return Authorization Number (RMA #) to ship the unit back for repair.
 - b. If the unit is under warranty, the repairs are free.
3. Pack the unit in the original packaging to avoid damage during transit. Damage sustained during transit or lost packages on the way to Maruson are not covered under warranty. The customer is responsible for all shipping costs (including duties and taxes if outside US) to ship to Maruson.
4. The RMA number must be marked on the outer packaging and return the unit by insured, pre-paid carrier to the address provided by the technician. Packages without an RMA number on the outside package and collect shipments will be refused.

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