



User's Manual Legend SB425

K01-1120007-00



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Thank you for purchasing a Legacy Power Conversion Product. To enjoy all the features and benefits of this Uninterruptible Power System (UPS), please read and follow all installation and operation instructions completely. The accompanying SeeUPS2020 software saves data, closes open applications and automatically shuts down your computer system in an intelligent and orderly manner.

IMPORTANT SAFETY WARNINGS

(SAVE THESE INSTRUCTIONS)

This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries. Please read and follow all instructions carefully during installation and operation of the unit. Read this manual thoroughly before attempting to unpack, install, or operate.

CAUTION! UPS must be live parts inside can be energized by the battery, even when AC outlet with fuse or circuit breaker protection. **DO NOT** plug unit into an outlet that is not grounded.

CAUTION! DO NOT USE FOR MEDICAL OR LIFE SUPPORT

EQUIPMENT! Legacy Power Conversion does not sell products for life support or medical applications. DO NOT use in any circumstance that would affect operation or safety of any life support equipment, with any medical applications, or patient care.

CAUTION! The battery can energize hazardous live parts inside even when the AC input power is disconnected.

CAUTION! To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area, free of conductive contaminants. (Please see specifications for acceptable temperature and humidity range).

CAUTION! To reduce the risk of electric shock, do not remove the cover, except to service the battery. No user serviceable parts inside, except for the battery.

CAUTION! To avoid electrical shock, turn off the unit and unplug it from the AC power source before servicing the battery or installing a computer component.

CAUTION! DO NOT USE WITH OR NEAR AQUARIUMS! To reduce the risk of fire, do not use with or near aquariums. Condensation from the aquarium can cause the unit to short out.



INSTALLING YOUR UPS SYSTEM

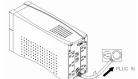
UNPACKING

Inspect the UPS upon receipt. The box should contain the following:

- (1) UPS Unit; (1) User's Manual for UPS; (1) Warranty Registration Card;
- (1) SeeUPS2020 Software Disk; (1) User's Manual for SeeUPS2020;
- (1) Serial Interface Cable (DB-9); (1) Serial-to-USB cable; (1) Telephone Cable

HARDWARE INSTALLATION GUIDE

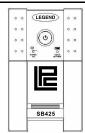
- Connect the equipment to your UPS outlets. Items such as copiers, laser printers, vacuums, space heaters, or other large electrical devices should not be connected to the UPS. Please assure that the total loads of your equipments must be less than the maximum total power load of your UPS.
- Connect your UPS power cord into a two-pole, three-wire grounding receptacle only. Please avoid using extension cords and adapter plugs. (To maintain optimal battery charge, leave the UPS plugged in at all times.)



- 3. Press the UPS power button to turn it on. The "Power On" indicator will be illuminated in "Green".
- 4. Install your optional software and accessories. To use the software, simply connect the enclosed serial interface cable to the serial port on the UPS and an open serial port on the computer.

BASIC OPERATION

FRONT PANEL AND REAR PANEL DESCRIPTION





Power Switch

(0)

Press the power button to turn the UPS ON or OFF

◆ Power On Indicator

POWER

This LED is illuminated when the utility condition is normal and the UPS outlets are providing "clean power", free of surges and spikes

◆ Using Battery Indicator



This illuminates during utility failure, indicating that the battery is supplying power to the battery-power supplied outlets.

♦ Battery Backup and Surge Protection Outlets



Provides three battery powered and surge protected outlets for connected equipment to insure temporary uninterrupted operation during a power failure and against surges and spikes.

♦ Surge Protection Outlets



Provides three surge protected only outlets for connected equipment against surges and spikes

♦ Wiring Fault Indicator



This LED indicator will illuminate to warn the user that a wiring problem exits with the AC outlet, such as bad ground, miss ground or reversed wiring. If this is illuminated, the user is advised to disconnect all electrical equipment from the outlet and have an electrician check the outlet to insure proper wiring.

◆ Circuit Breaker Reset for Overload Protection



Circuit breakers provide optimal overload protection. When overload occurs, the circuit breaker will switch to battery mode. You will need to reset the circuit breaker so UPS will provide the power from utility.

◆ Serial Port to PC



This port allows connection and communication from the DB-9 serial or USB port on the computer to the UPS unit. The UPS communicates its status to the SeeUPS2020 software. This interface is also compatible with the UPS service provided by Windows NT, Windows 2000 and Windows XP.

◆ Ethernet (RJ-45) Network Protection Ports



These ports are the protection for your computer network cable, modem or telephone.



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TROUBLESHOOTING

Problem	Possible Cause	Solution	
The UPS does not	Batteries are not fully charged.	Recharge the battery by leaving the UPS plugged in.	
perform expected runtime.	Battery is slightly worn out.	Contact Legacy Power Conversion about replacement batteries at service@lpc-ups.com or 800-859-5711.	
	The on/off switch is designed to prevent damage by rapidly turning it off and on.	Turn the UPS off. Wait 10 seconds and then turn the UPS on.	
The UPS will not turn on.	The unit is not connected to an AC outlet.	The unit must be connected to a 110/120v 60Hz outlet.	
	The battery is worn out.	Contact Legacy Power Conversion about replacement batteries at service@lpc-ups.com or 800-859-5711.	
	Mechanical problem.	Contact Legacy Power Conversion about replacement batteries at service@lpc-ups.com or 800-859-5711.	
Outlote de net	Circuit breaker is tripped due to overload	Turn the UPS off and unplug at least one piece of equipment. Wait 10 seconds, reset the circuit breaker and then turn the UPS on.	
Outlets do not provide power to equipment	Batteries are discharged	Allow the unit to recharge for at least 4 hours.	
	Unit has been damaged by a surge or spike.	Contact Legacy Power Conversion about replacement batteries at service@lpc-ups.com or 800-859-5711.	
SeeUPS2020 is inactive (all icons are gray).	The serial cable is not connected.	Connect the serial cable that came with the UPS to the UPS and an open serial port on the back of the computer.	
	The serial cable is connected to the wrong port.	Check the back of the computer for another serial port. Move the cable to this port.	
	The unit is not providing battery power.	Shutdown your computer and turn the UPS off. Wait 10 seconds and turn the UPS back on. This should reset the UPS.	
	The serial cable is not the cable that was provided with the unit.	You must use the cable that was included with the UPS for the software and the unit to communicate.	

TECHNICAL SPECIFICATIONS

Model	SB425		
Capacity (VA)	425VA		
Capacity (Watts)	230W		
Input			
Input Voltage Range	100Vac - 140Vac		
Frequency Range	57 – 63 Hz		
Output			
On Battery Output Voltage	Simulated Sine Wave at 120Vac +/- 5%		
On Battery Output Frequency	60 Hz +/- 1%		
Transfer Time (Typical)	4ms		
Overload Protection	On Utility: Circuit Breaker, On Battery: Internal Current Limiting		
Surge Protection and Filtering			
Lightning / Surge Protection	Yes		
Internet Ready (DSL / Phone /	D 144 / D 145 / (2		
FAX / Modem Protection)	RJ11/RJ45 (One In/One Out)		
Physical			
Total # of UPS Receptacles	3		
Maximum Dimensions	23.8cm x 8.0cm x 13.5cm		
Weight	5.0kg		
Battery			
Sealed Maintenance Free Lead	12V / 4AH x 1		
Acid Battery	12V / 4AΠ X 1		
Typical Recharge Time	8 Hours		
Warning Diagnostics			
Indicators	Power On, Using Battery, Wiring Fault		
Audible Alarms	On Battery, Low Battery, Overload		
Environmental			
Operating Temperature	+32°F to 95°F (0°C to 35°C)		
Operating Relative Humidity	0 to 95% NON-CONDENSING		
Communication			
SeeUPS2020 Software	Windows 95/98/ME/NT/2000/XP		
Management			
Self-Test	Yes		
Auto-Charge	Yes		
Auto-Restart	Yes		
USB	Optional		



DEFINITIONS FOR ILLUMINATED LED INDICATORS

7		O WIRING	Push To RESET	→ (((((Condition
Power On	Using Battery	Wiring Fault	Circuit Breaker	Alarm	
On	Off	Off	Set	Off	Normal
Off	On	On/Off	Set	Two Beeps	Utility Failure- The UPS is providing battery power to the Battery-Power Supplied outlets.
Off	On	On/Off	Set	Rapid Beeps	Utility Failure- The UPS is providing battery power. The rapid beeps indicate the battery will run out of charge within a few minutes.
Off	On	Off	Up	Two beeps or rapid beeps	Overload- Occurs in the Full-time Surge Protection Outlets. Turn the UPS off and unplug at least one piece of equipment from the UPS. Wait 5 seconds, reset the circuit breaker and turn the UPS on.
Off	On/Off	On/Off	Set	Long Beep	Overload- Occurs in the Battery-power Supplied Outlets. Turn the UPS off and unplug at least one piece of equipment from the UPS. Wait 5 seconds, reset the circuit breaker and turn the UPS on.
On/Off	On/Off	On	Set/Up	None	Electrical Wiring Fault- This indicates a wiring a problem such as a bad ground, missed ground or reversed wiring within the AC outlet. User is advised to disconnect all electrical equipment from the outlet and have the outlet checked by an electrician.

LIMITED WARRANTY

In purchasing SB425 in the United States or Canada, the original end user receives a Limited Warranty from Legacy Power Conversion, Inc. (for ease of reading, referred to as "Legacy"). The Limited Warranty is intended to be the original end-user's exclusive rights and remedies.

Limited Warranty. The original end user (referred to as the "Initial Customer") receives an express limited warranty (referred to as the "Limited Warranty") for the SB425 purchased from Legacy (referred to as the "Product"). The Limited Warranty is for the Product itself. The Limited Warranty is subject to the terms set forth below. Additionally, State or Provincial law may adjust the terms of the Limited Warranty or the State or Province may impose additional obligations, or additional "implied warranties." To the extent necessary to comply with those laws, the terms of the Limited Warranty should be read to adjust to those requirements only to the extent necessary to comply with such local law.

If you are an Initial Customer, you are asked to read the following terms and conditions carefully before using the Product. By using the Product you consent to be bound by and become a party to the Limited Warranty. If you do not agree to the terms and conditions of the Limited Warranty, you should return the Product for a full refund prior to using it.

REGISTRATION

Legacy requests that you complete and return the Warranty Registration Card enclosed with the Product or register the Product at its website (www.lpc-ups.com) to establish that you are the Initial Customer of the Product, and therefore entitled coverage under the Limited Warranty. (Registration is not required for Limited Warranty coverage, but note if you do not complete a registration card you will be required to provide proof of purchase, as described below, to have the benefits of this Limited Warranty.)

LIMITED WARRANTY

Legacy warrants to you, the Initial Purchaser, that the Product will be free from defects in material and workmanship for three years from the date of original purchase, subject to the terms of this Limited Warranty. This Limited Warranty gives you specific rights, and you may have other rights, which vary from State to State or Province to Province.

Any Implied Warranty of Merchantability or for Fitness for a Particular Purpose, if applicable to the Product, is limited in duration to the period of ownership by the Initial Customer. This provision shall NOT create any Implied Warranty or Merchantability or of Fitness for a Particular Purpose that would not otherwise apply to the Product. NOTE: Some States and Provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

To be covered you must still be the owner of the Product at the time of the failure that results in the claim made under this Limited Warranty.

Exclusive Remedies Under Limited Warranty.

Your exclusive remedy and Legacys' sole obligations are as follows for the Product:

If (a) the Legacy Product you purchased and still own is defective in material or workmanship under this Limited Warranty or any applicable warranty imposed by law, and (b) all Limited Warranty requirements have been met, Legacy will repair or replace the Product if it proves to be defective in material or workmanship during the Warranty Period.



Making a Limited Warranty Claim.

To make a Limited Warranty claim on a Product, you must do the following:

- Complete and return the Legacy Warranty Registration Card, or provide reasonable proof of purchase (for example, a sales receipt) that establishes you as the Initial Customer (the original end-user consumer purchaser) of the Product and prove that the Product was purchased within three (3) years of the event for which you want to make a claim for warranty service.
- Call Legacy at (608) 565-5878 or (800) 859-5711 (toll free), write to Legacy Power Conversion at N9246 Hwy 80 South, Suite 7, Necedah, WI 54646, or e-mail Legacy at service@lpc-ups.com, within ten (10) days of the event for which you want to make a claim.
- When you contact Legacy, identify the Product, the Purchase Date, and request Return Materials Authorization (RMA) information from Legacy. 3.
- Pack and ship the Product to Legacy as instructed in your RMA. Show the RMA code on the shipping label or include it with the Product.

You MUST prepay all shipping costs and you are responsible for packaging and shipment.

Legacy will inspect and examine the Product within ten (10) days of receipt. If the Product is not as warranted, Legacy will repair or replace the Product and return it to you at Legacy's expense, or, if Legacy is unable to or decides not to repair or replace the Product (if defective) within a reasonable time, Legacy will refund to you the full purchase price you paid for the Product (purchase receipt showing price paid is required)

CONDITIONS TO THE LIMITED WARRANTY

The Limited Warranty is the only and the exclusive express warranty of Legacy with respect to the Product. This exclusion of other express warranties applies to written and oral express warranties.

LIMITATION: THE LIMITED WARRANTY DOES NOT COVER

The Limited Warranty is intended to exclusive rights and remedies and replace any other rights, to the extent allowed by law.

As to the Legacy Product, the limited warranty does not cover or apply to: misuse, modification, operation or storage outside environmental limits for the Products, in transit, in shipment, or in storage, damage or deterioration, improper operation or maintenance, or use with items or equipment not designed or intended for use with the product.

The Limited Warranty Does Not Apply Unless The Initial Customer:

- Has properly connected the Product and the Connected Equipment to properly wired and grounded outlets (including compliance with electrical and safety codes of the most current electrical code (ANS/NFPA 70), without the use of any adapters, extension cords of other connectors.
- Has provided a suitable and proper environment for use and installation of the Product and Connected Equipment.

 Has properly installed and operated the Legacy Product and Connected equipment.
- Has operated the Product at all times within the limitations on the Product's VA capacity as stated in this User Manual.

Legacy Does Not Cover or Undertake Any Liability in Any Event for Any of the Following:

- Loss of or damage to data, records, or software or the restoration of data or records, or the reinstallation of software.
- 2. Damage from causes other than AC Power Line Transients, spikes, or surges on properly installed, grounded and code-compliant 120 volt power lines in the United States and Canada; transients, surges or spikes on standard telephone land lines, PBX telephone equipment lines or Base 10T Ethernet lines, when properly installed and connected. (This exclusion applies, for example, to fluctuations in data transmission or reception, by CATV or Therefore transmission or fluctuations, or by transients in such transmission.
- Damage from any circumstance described as excluded above with respect to the product.
- Damages from fire, flood, wind, rain, rising water, leakage or breakage of plumbing, abuse, misuse or alteration of either the product or the Connected Equipment.

Exclusion of Consequential and Other Damages.

The sole and exclusive remedies of the Initial Customer are those provided by the Limited Warranty. Legacy excludes any liability for personal injury under the Limited Warranty. Legacy excludes any liability for direct, indirect, special, incidental or consequential damages, whether for damage to or loss of property, loss of profits, business interruption, loss of information or data. This exclusion applies even though damage or loss is caused by negligence or other fault. NOTE: Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT OR OTHER HIGH RISK ACTIVITIES.

Legacy does not sell the Products for use in high-risk activities. The Product is not designed or intended for use in hazardous environments requiring fail-safe performance, including the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, weapons systems, life support or medical applications or for use in any circumstance in which the failure of the Product could lead directly to death, personal injury, or severe physical or property damage, or that would affect operation or safety of life support device (collectively, "High Risk Activities"). Legacy expressly disclaims any express or implied warranty of fitness for High Risk Activities.

Legacy does not authorize use of any of its products use in any High Risk Activities.

ANY SUCH USE IS IMPROPER AND IS A MISUSE OF LEGACY PRODUCTS.

The Limited Warranty is governed by the laws of the United States and the State of Wisconsin, without reference to conflict of law principles.

The application of the United Nations Convention of Contracts for the International Sale of Goods is expressly excluded.

Contact Information: Legacy's address is N9246 Hwy 80 South, Necedah, WI 54646 and its phone number is (608) 565-5878 or (800) 859-5711 (toll free). Legacy is the warrantor under this Limited Warranty. You may also contact Legacy on the Internet at www.lpc-ups.com.



FCC Notice

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 residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful 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 or more of the following measures: (1) Reorient or relocate the receiving antenna. (2) Increase the separation between the equipment and receiver. (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. (4) Consult the dealer or an experienced radio/TV technician for help. Any special accessories needed for compliance must be specified in the instruction.

CAUTION: A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment.

CAUTION: Any changes or modifications not expressly approved by the guarantee of this device could void the user's authority to operate the equipment.



For more information, contact us at:

Legacy Power Conversion, Inc. N9246 Hwy 80 South, Suite 7

Necedah, WI 54646
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