Uninterruptible Power Supply

SBP Series
400VA - 800VA

USER'S GUIDE

Models:

**SBP0400TBF-6U,SBP0600TBF-6U,
SBP0800TBF-6U
SBP0400TBF-6U-LCD,SBP0600TBF-6U-LCD,
SBP0800TBF-6U-LCD**

Smart Power ™
SYSTEMS

A POWER QUALITY COMPANY

IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS

This manual contains important instructions for models SBP0400TBF-6U, SBP0600TBF-6U, SBP0800TBF-6U, SBP0400TBF-6U-LCD, SBP0600TBF-6U-LCD, SBP0800TBF-6U-LCD that should be followed during installation and maintenance of the UPS and batteries.

Safety Caution!

Maximum output power during reserve mode shall not exceed 240W for model SBP0800TBF-6U, SBP0800TBF-6U-LCD and 180W for models SBP0600TBF-6U, SBP0600TBF-6U-LCD and 120W for models SBP0400TBF-6U, SBP0400TBF-6U-LCD

This UPS utilizes voltages that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user serviceable parts. Only factory service personnel may perform repairs.

• Connection to any other type of receptacle other than a two-pole, three wire grounding receptacle may result in s shock hazard as well as violate local electrical codes.
• In the event of an emergency, turn the power switch to the "off" position and disconnect the power cord form the AC power supply to properly disable the UPS.
• Do not allow any liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
• This unit intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water, or excessive humidity.
• Do not plug the UPS input into its own output.
• Do not attach a power strip or surge suppressor to the UPS.
• Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS
• To reduce the risk of overheating the UPS, 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.
• Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
• Do not dispose of battery or batteries in a fire. The battery may explode.
• Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.

• A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:
      1) Remove watches, rings, or other metal objects from the hand.
      2) Use tools with insulated handles. ear rubber gloves and boots.
      4) Do not lay tools or metal parts on the top of batteries.
      5) Disconnect charging source prior to connecting or disconnecting batteries terminal. Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries

• When replacing batteries, replace with the same number of the sealed lead-acid batteries.

CONSIGNES DE SÉCURITÉ IMPORTANTES
CONSERVER CES INSTRUCTIONS

Ce manuel contient des instructions importantes pour les modèles SBP0400TBF-6U, SBP0600TBF-6U, SBP0800TBF-6U, SBP0400TBF-6U-LCD, SBP0600TBF-6U-LCD, SBP0800TBF-6U-LCD qui doivent être suivies lors de l'installation et de la maintenance de l'onduleur et des batteries.
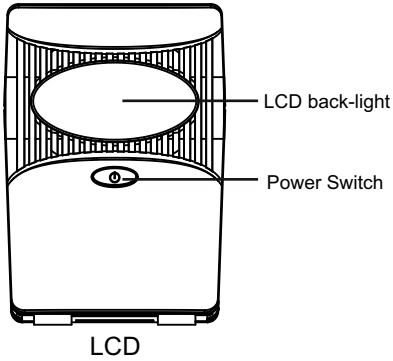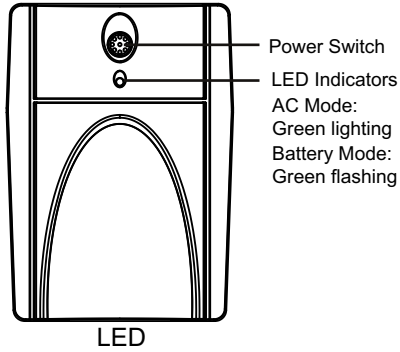
Sécurité Attention!

Puissance de sortie maximale en mode de réserve ne doit pas dépasser 240W pour le modèle SBP0800TBF-6U, SBP0800TBF-6U-LCD et 180W pour les modèles SBP0600TBF-6U, SBP0600TBF-6U-LCD et 120W pour les modèles SBP0400TBF-6U, SBP0400TBF- 6U-LCD

Cet onduleur utilise des tensions qui peuvent être dangereux. Ne pas tenter de démonter l'appareil. L'unité ne contient aucune pièce réparable par l'utilisateur. Seul le personnel de service de l'usine peuvent effectuer des réparations.
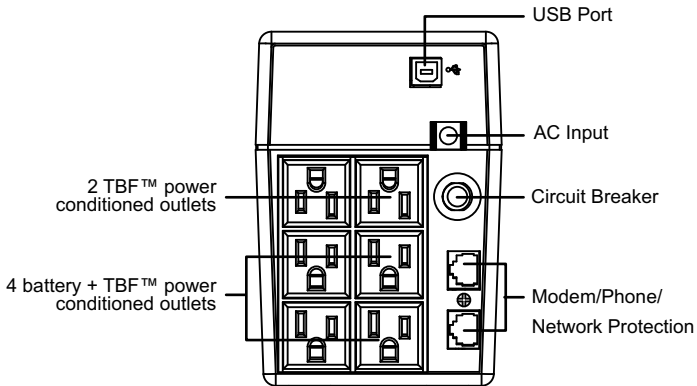
• La connexion à tout autre type de récipient autre que deux pôles, trois fils mise à la terre prise peut provoquer de choc électrique ainsi que violer les codes électriques locaux.
• En cas d'urgence, mettre l'interrupteur d'alimentation sur la position "off" et débranchez le cordon d'alimentation former le bloc d'alimentation AC pour désactiver correctement l'onduleur.
• Ne laissez pas de liquides ou de tout objet étranger de pénétrer l'onduleur. Ne placez pas de boissons ou d'autres navires contenant des liquides sur ou à proximité de l'appareil.
• Cet appareil destiné à être installé dans un environnement contrôlé (température contrôlée, zone couverte exempt de contaminants conducteurs). Evitez d'installer l'onduleur dans des endroits où il est eau stagnante ou courante, ou à une humidité excessive.
• Ne pas brancher l'entrée de l'onduleur dans sa propre production.
• Ne pas fixer une bande de puissance ou parasurtenseur à l'onduleur.
• Ne fixez pas des éléments non liés à l'informatique, tels que les équipements médicaux, le matériel de soutien de la vie, les fours à micro-ondes, ou des aspirateurs à UPS
• Pour réduire le risque de surchauffe de l'onduleur, ne couvrent pas les orifices de ventilation de l'onduleur »et éviter d'exposer l'appareil directement au soleil ou d'installer l'appareil à proximité d'appareils émettant de la chaleur tels que les radiateurs ou les fours espace.
• Débranchez-le avant de le nettoyer et ne pas utiliser de détergent liquide ou aérosol.
• Ne jetez pas les batteries dans un feu. La batterie peut exploser.
• Ne pas ouvrir ni mutiler la batterie ou des piles. L'électrolyte libéré est nocif pour la peau et les yeux. Il peut être toxique.

• Une batterie peut présenter un risque de choc électrique et de courant de court circuit élevé. Les précautions suivantes doivent être respectées lors de travaux sur les batteries:
1) Retirez montres, bagues ou autres objets métalliques de la main.
2) Utilisez des outils avec des poignées isolées. des gants et des bottes en caoutchouc oreille.
4) Ne pas poser d'outils ou de pièces métalliques sur le dessus des batteries.
5) Débrancher la source de charge avant de connecter ou de déconnecter les batteries terminal. Entretien des batteries doit être effectué ou supervisé par un personnel connaissant bien les batteries et les précautions requises. Garder le personnel non autorisé loin des batteries

• Lorsque vous remplacez les piles, remplacez-les par le même nombre de batteries plomb-acide scellées.

System Description

FRONT PANEL

Power Switch

LED Indicators
AC Mode:
Green lighting
Battery Mode:
Green flashing

LED

LCD back-light

Power Switch

LCD

BACK PANEL FOR LED & LCD

USB Port

AC Input

2 TBF™ power
conditioned outlets

Circuit Breaker

4 battery + TBF™ power
conditioned outlets

Modem/Phone/

Network Protection

Installation and Operation

Installing the UPS is as easy as following the steps shown. Be aware the Power Switch must be kept in the "ON" position, otherwise, the UPS will be disabled and your equipment will not be protected during a power failure.

1. Inspection

Remove the UPS from its packaging and inspect it for damage that may have occurred during shipping. If any damage is discovered, repack the unit and return it to the place of purchase. Obtain an RMA (Return Material Authorization) number before returning the unit by calling 1-800-772-7633 or by visiting our website at www.smartpowersystems.com/rma.htm
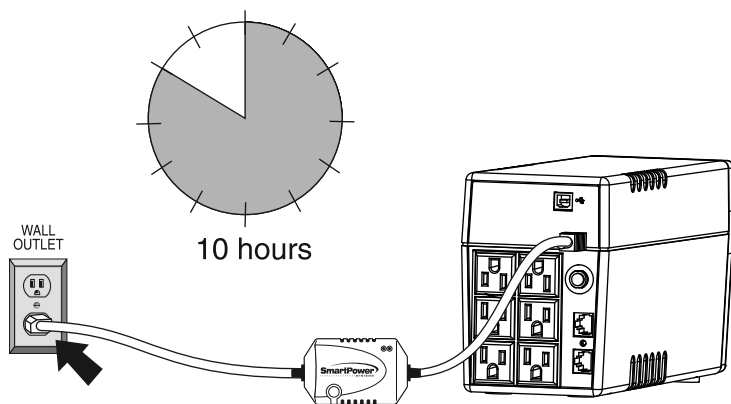
Please inform the transport agency immediately should you find signs of damage. Please keep the packaging in a safe place for future use.

2. Placement

Install the UPS unit in any protected environment that provides adequate airflow around the unit, and is free from excessive dust, corrosive fumes and conductive contaminants. Do not operate your UPS in an environment where the ambient temperature or humidity is high. On the other hand, place the UPS unit away from monitor at least 8 inches to avoid interference.
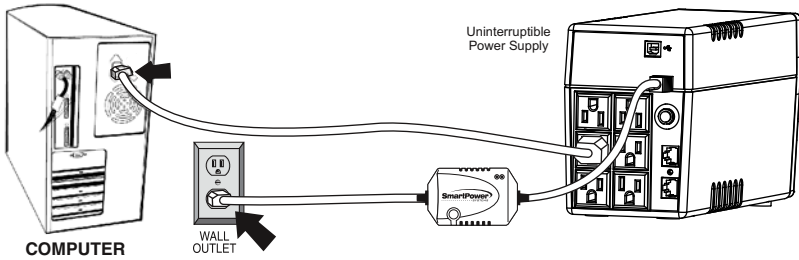
3. Charging

This unit is shipped from the factory with its internal battery fully charged, however, some charge may be lost during shipping and the battery should be recharged prior to use. Plug the unit into an appropriate power supply and allow the UPS to charge fully by leaving it plugged in for at least 8 hours.
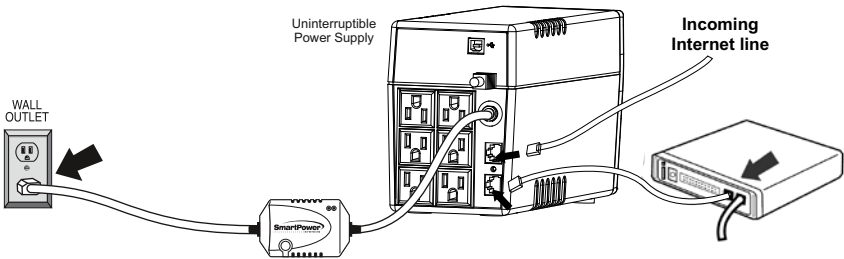
WALL
OUTLET

10 hours

SmartPower

4

Computer Connection

Connect one computer-related device into each of the power receptacles supplied on the back of the UPS (maximum of three devices).

Uninterruptible
Power Supply

COMPUTER

WALL
OUTLET

Modem/Phone line Connection

Plug incoming internet line into the "In" socket at the back of the UPS. Use one more Internet line cable and plug one end of the Internet line cable to the "Out" socket at the back of the UPS. Plug the other end to the modem input socket as shown.

Uninterruptible
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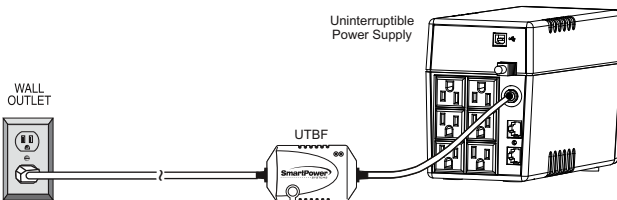**Incoming
Internet line**

WALL
OUTLET

UPS TBF™ Models

1.Turn off and un-plug all devices.
2.Plug UPS unit into grounded wall outlet.
3.Place the UTBF where monitoring lights can be observed.

UTBF INDICATORS:

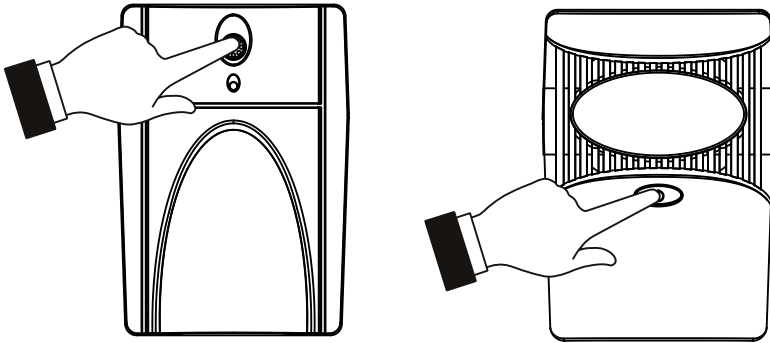**Green light only** - It confirms properly connected equipment is fully protected.

Green and Red light - Reverse polarity or loss of ground at the wall outlet. Call your electrician to correct the problem.

Green light off - Power failure or UTBF fault. Contact customer service.

Uninterruptible
Power Supply

WALL
OUTLET

UTBF

Tun On/Off

The UPS will be turned on automatically at first plug-in. At this moment, press the power switch lightly to turn off the UPS. To turn on the UPS again, just simply press power switch again. Please **DO NOT** punch it to extend the life of the power switch.
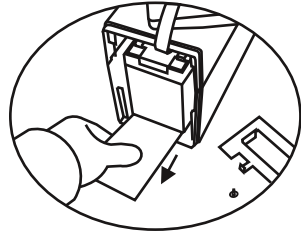

DC Start Function

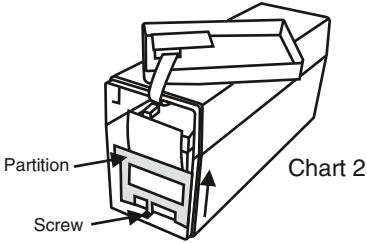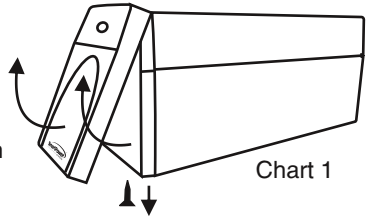DC Start Function enables UPS to be started up when AC utility power is not available and battery is fully charged. Just simply press the power switch to turn on the UPS.

Green Power Function

All UPS are equipped with Green Power function. If no load connects to the UPS, it will automatically shut down in 5 minutes for energy saving while power failure. The UPS will restart while AC recovery.

Battery Removal (SBP400-800)

Before replacing the battery, turn off the UPS and unplug the UPS cord from the wall outlet. Follow Chart 1 to remove the screw located on the bottom of the front panel and then open the front cover.

Chart 1

Partition

Screw

Chart 2

Chart 3

After removing the front cover, follow Chart 2 to remove partition by removing the screw. Then follow Chart 3 to pull out battery by pulling attached white vinyl sheet. Disconnect the wires connected to the battery. Be sure to replace the same type of batteries and dispose of old batteries properly at an appropriate recycling facility.
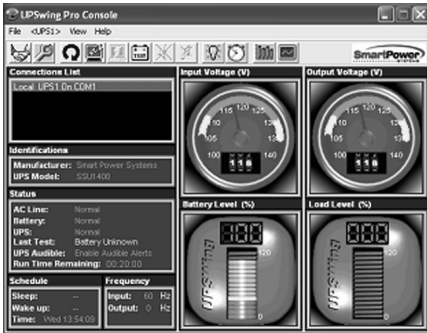
Free Software Download

SmartPower Systems provides a complete line of software solutions for standalone and networked computers, including SNMP support.

UPSwing™
POWER MANAGEMENT SOFTWARE

FEATURES

- Automatic Save and Shutdown for unattended PCs
- Reboot/Shutdown scheduling
- Self test scheduling
- Power condition analysis
- Online display of input / output voltage and frequency, battery capacity and load level
- Dashboard interface
- Send on-line commands to UPS such as Test, Shutdown, Sleep and restart
- Extensive logging of all UPS operation and power quality data
- Event & date analysis
- Events and data bar charts presentation
- Graphical display of power quality
- Run in background even before user login

Supports: Windows XP/ME/7/NT/2000/2003

UPSwing Pro™ is also available for SCO UNIX, Sun Solaris, LINUX, FreeBSD and Windows™ with Networking capability.

Downloading UPSWING from the internet is a simple process:

1. Go to www.smartpowersystems.com/downloads/Setup.exe

2. Double click on the Setup.exe file and follow instructions.

For Network support version contact us at support@smartpowersystems.com

Troubleshooting

Symptom	Possible Cause	Solution
No LED or no LCD display on the front panel	1. Missing battery	1. Charge battery up to 8 hours
	2. Battery defect	2. Replace with the same type of battery
	3. Power switch is not pressed	3. Ensure the power switch is pressed
Alarm buzzer beeps continuously when AC supply is normal	Overload of the UPS	Verify that the load matches the UPS capability specified in the specs
When power failure, back-up time is shorten	1. Overload of the UPS	1. Remove some noncritical load
	2. Battery voltage is too low	2. Charge battery 8 hours or more
	3. Battery defect due to high temperature operation environment, or improper operation to battery	3. Replace with the same type of battery
Mains normal but LED is flashing	1. Circuit Breaker is broken	1. Reset the circuit breaker
	2. Power cord is loose	2. Reconnect the power cord properly
Mains normal but LCD display Battery mode.	1. Circuit breaker is broken.	1. Reset the circuit breaker..
	2. Power cord is loose.	2. Reconnect the power cord properly.
Communication lost between UPS and computer.	1. Software is not installed well.	1. Check the setting of the software.
	2. Cable is not properly connected.	2. Make sure both ends of the USB cable is connected and recheck settings.

If abnormal situations occur that are not listed above, please call customer service immediately.

Specifications - 400VA - 800VA

MODEL		SBP0400TBF-6U SBP0400TBF-6U-LCD	SBP0600TBF-6U SBP0600TBF-6U-LCD	SBP0800TBF-6U SBP0800TBF-6U-LCD
CAPACITY	VA/W	400VA/240W	600VA/360W	800VA/480W
INPUT	Voltage	120VAC		
	Voltage Range	89-145VAC		
OUTPUT	Voltage	120VAC		
	Voltage Regulation	+/- 10% (Battery Mode)		
	Frequency	50Hz/60Hz		
	Frequency Regulation	+/-1 Hz (Battery Mode)		
	Output Waveform	Simulated Sine-wave		
BATTERY	Battery Model	SP012	SP012	SP013
	Back up Time (minutes) Half load	14	8	7
	Recharge Time	6 Hours to 90% after complete discharge		
	Battery Test	Automatically every month		
TRANSFER TIME	Typical	2-6ms typical		
INDICATOR	LCD Display Models	The LCD will always turn on when UPS work, Including in off charging mode and fault mode		
AUDIBLE ALARM	Backup Mode	Sounding every 10 seconds		
	Battery Low	Sounding every 1 second		
	Overload	Sounding every 0.5 second		
	Battery replace	Sounding every 2 seconds		
	Fault	Continuous Sounding		
PROTECTION	Full Protection	Discharge, Overcharge short circuit and Overload Protection		
	Spike Protection	1710 Joules		
	Overload	UPS automatic shutdown if overload exceeds: 1) Line mode: 110% of nominal at 5 minutes, 120% immediately 2) Battery mode: 110% of nominal at 5 seconds, 120% immediately		
	Unit Input	Circuit breaker protection		
	Tel / Fax / Modem / DSL / Network	RJ11/45 compatible jacks		
PHYSICAL	Dimension (DxWxH)	330 x 100 x 140mm/12.9 x 3.9 x5.5 inch		
WEIGHT	Net Weight	11.02 / 5.0	12.34 / 5.6	12.56 / 5.7
COMMUNICATION PORT USB	UPSWING for Windows	Software detects power failure, battery low, schedule UPS on/off, AC power status display, bat / load level display		
	Optional Software	UPSWING PRO SCO UNIX, Linux, Sun, Solaris		
CONFORMANCE	Safety	cUL, UL		
	Warranty	Two years for the SBP unit. Four years pro-rated battery warranty. $25,000 Connected Equipment Protection Warranty		
ENVIRONMENT	Ambient Operation	0-90% humidity non-condensing 0-40 deg C		
	Audible Noise	<40 dBA (1 meter from surface)		

All trade names are registered trademarks of respective manufacturers listed.

Specifications and features subject to change without notice.

LIMITED PRODUCT WARRANTY

We warrant this product to be free from defects in material and workmanship for 2 years. The battery has a 2 year warranty. If a product proves to be defective in material or workmanship during the warranty period, we will at our sole option repair or replace the product with a like product. Visit our website for details - www.smartpowersystems.com

CONNECTED EQUIPMENT PROTECTION POLICY

If the Smart Power Systems equipment fails and this failure causes the surges to pass through and damage the connected equipment, Smart Power Systems will pay for the repair or replacement of the connected equipment up to $25,000 in accordance to the Connected Equipment Protection Policy. Visit our website for details -

www.smartpowersystems.com/downloads/archives/030714-SPS-CEPP.pdf

IMPORTANT

If for any reason you need to return the unit to the manufacturer, you should obtain an RMA (Return Material Authorization) number before returning the unit. To request an RMA number please call 1-800-772-7633 or visit the website at www.smartpowersystems.com/rma.htm

NOTES

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