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Owner's Manual

SMART700DV

Intelligent, Line-Interactive UPS System

- 120V/230V Auto-Sensing Input, 120V Output

Not suitable for mobile applications.



Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE



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Important Safety Instructions



SAVE THESE INSTRUCTIONS

This manual contains important instructions that should be followed during the installation, operation and storage of all Tripp Lite UPS Systems. Failure to heed these warnings will void your warranty.

UPS Location Warnings

- The UPS is heavy. Use caution when lifting it.
- Install your UPS indoors, away from excess moisture or heat, dust or direct sunlight.
- For best performance, the ambient temperature near your UPS should be between 0° C and 40° C (between 32° F and 104° F).
- Leave adequate space around all sides of the UPS for proper ventilation. Do not obstruct its vents or fan openings.

UPS Connection Warnings

- The UPS contains its own energy source (battery). The output terminals may be live even when the UPS is not connected to an AC supply.
- Connect your UPS to a properly grounded AC power outlet. Do not modify the UPS's plug in a way that would eliminate the UPS's connection to ground. Do not use adapters that eliminate the UPS's connection to ground.
- Do not plug your UPS into itself; this will damage the UPS and void your warranty.
- If you are connecting your UPS to a motor-powered AC generator, the generator must provide filtered, frequency-regulated computer-grade output. Connecting your UPS to a generator will void its Ultimate Lifetime Insurance.

Equipment Connection Warnings

- Do not use Tripp Lite UPS Systems for life support applications in which a malfunction or failure of a Tripp Lite UPS System could cause failure or significantly alter the performance of a life-support device.
- Do not connect surge suppressors or extension cords to the output of your UPS. This might overload the UPS and will void the surge suppressor and UPS warranties.

Battery Warnings

- Batteries can present a risk of electrical shock and burn from high short-circuit current. Observe proper precautions. Do not dispose of the batteries in a fire. Do not open the UPS or batteries. Do not short or bridge the battery terminals with any object. Unplug and turn off the UPS before performing battery replacement. Use tools with insulated handles. There are no user-serviceable parts inside the UPS. Battery replacement should be performed only by authorized service personnel using the same number and type of batteries (sealed Lead-Acid). The batteries are recyclable. Refer to your local codes for disposal requirements or in the USA only call 1-800-SAV-LEAD or 1-800-8-BATTERY (1-800-822-8837) or visit www.rbrc.com for recycling information. Tripp Lite offers a complete line of UPS System Replacement Battery Cartridges (R.B.C.). Visit Tripp Lite on the Web at www.tripplite.com to locate the specific replacement battery for your UPS.
- During hot-swap battery replacement, the UPS will not provide backup power in the event of a blackout or other power interruptions.
- Do not operate UPS without batteries.

Quick Installation

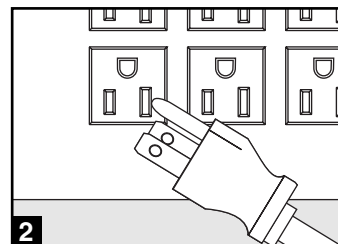
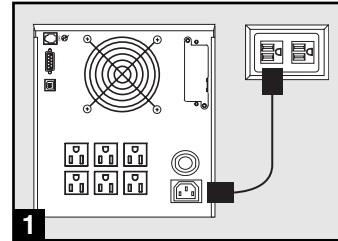
1 Plug the UPS into a wall outlet supplying either 120V or 230V (nominal) AC power.

Use the included detachable power cord. The IEC-320 end connects to the AC input receptacle on the rear of the UPS; the NEMA 5-15 end connects to the wall outlet.

To plug the UPS into a wall outlet that does not accept a NEMA 5-15 plug, simply replace the included power cord with a detachable cord from another piece of equipment, such as a computer. Then, use the included power cord to connect the equipment to the UPS.

NOTE! After you plug the UPS into a live AC outlet, the UPS (in “Standby” mode) will automatically charge its batteries,* but will not supply power to its outlets until it is turned ON (see Step 3 below).

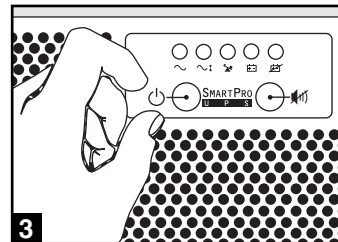
* The BATTERY CHARGE LED will be the only LED illuminated.



2 Plug your equipment into the UPS.

NOTE! Your UPS is designed to support only electronic equipment. You will overload the UPS if the total VA ratings for all the equipment you connect exceeds the UPS's Output Capacity (700VA). To find your equipment's VA ratings, look on their nameplates. If the equipment is listed in amps, multiply the number of amps by 120 to determine VA.

(Example: 1 amp \times 120 = 120 VA). If you are unsure if you have overloaded the UPS's outlets, see “OUTPUT LOAD LEVEL” LED description.



3 Turn the UPS ON.

Press and hold the “ON/OFF/STANDBY” button for one second. The alarm will beep once briefly after one second has passed. Release the button.

Optional Installation

These connections are optional. Your UPS will function properly without these connections.

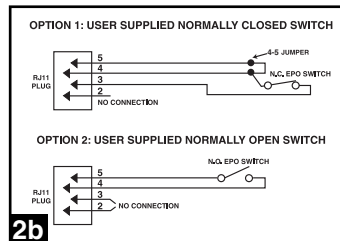
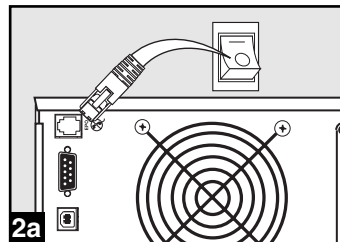
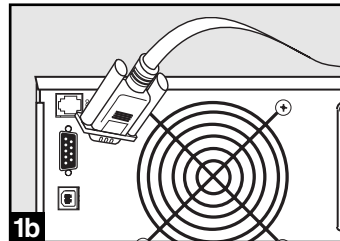
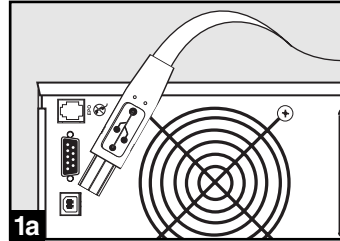
1 USB and RS-232 Serial Communications

Use the included USB cable (see **1a**) and/or DB9 serial cable (see **1b**) to connect the communication port on your equipment to the communication port of your UPS. Install on your equipment the Tripp Lite PowerAlert Software appropriate to your equipment's operating system. Consult your PowerAlert manual for more information.

2 EPO Port Connection

This optional feature is only for those applications which require connection to a facility's Emergency Power Off (EPO) circuit. When the UPS is connected to this circuit, it enables emergency shutdown of the UPS's inverter.

Using the cable provided, connect the EPO port of your UPS (see **2a**) to a user-supplied normally closed or normally open switch according to the circuit diagram (see **2b**). The EPO port is not a phone line surge suppressor; do not connect a phone line to this port.



Basic Operation

Buttons (Front Panel)



“ON/OFF/STANDBY” Button

- **To turn the UPS ON:** with the UPS plugged into a live AC wall outlet*, press and hold the “ON/OFF/STANDBY” button for one second.** Release the button. If utility power is absent, you can “cold-start” the UPS (i.e.: turn it ON and supply power for a limited time from its batteries***) by pressing and holding the “ON/OFF/STANDBY” button for one second.**
- **To turn the UPS OFF:** with the UPS ON and receiving utility power, press and hold the “ON/OFF/STANDBY” button for one second ** Then unplug the UPS from the wall outlet. The UPS will be completely OFF.

** After you plug the UPS into a live AC outlet, the UPS (in “Standby” mode) will automatically charge its batteries, but will not supply power to its outlets until it is turned ON. ** The alarm will beep once briefly after the indicated interval has passed. *** If fully charged.*



“MUTE/TEST” Button

To Silence (or “Mute”) UPS Alarms: briefly press and release the MUTE/TEST button.*

To Run a Self-Test: with your UPS plugged in and turned ON, press and hold the MUTE/TEST button for two seconds.* Continue holding the button until the alarm beeps several times and the UPS performs a self-test. See “Results of a Self-Test” below. Note: you can leave connected equipment on during a self-test. Your UPS, however, will not perform a self-test if the UPS is not turned on (see “ON/OFF/STANDBY” Button description).

CAUTION! Do not unplug your UPS to test its batteries. This will remove safe electrical grounding and may introduce a damaging surge into your network connections.

Results of a Self-Test: The test will last approximately 10 seconds as the UPS switches to battery to test its load capacity and battery charge.

- If the “OUTPUT LOAD LEVEL” LED remains lit red and the alarm continues to sound after the test, the UPS’s outlets are overloaded. To clear the overload, unplug some of your equipment and run the self-test repeatedly until the “OUTPUT LOAD LEVEL” LED is no longer lit red and the alarm is no longer sounding.

CAUTION! Any overload that is not corrected by the user immediately following a self-test may cause the UPS to shut down and cease supplying output power in the event of a blackout or brownout.

- If the “BATTERY WARNING” LED remains lit and the alarm continues to sound after the test, the UPS batteries need to be recharged or replaced. Allow the UPS to recharge continuously for 12 hours, and repeat the self-test. If the LED remains lit, contact Tripp Lite for service. If your UPS requires battery replacement, visit www.triplite.com to locate the specific Tripp Lite replacement battery for your UPS.

** The alarm will beep once briefly after the indicated interval has passed.*

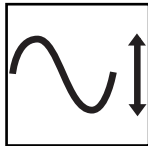
Basic Operation *continued*

Indicator Lights (Front Panel)

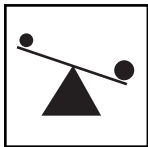
All Indicator Light descriptions apply when the UPS is plugged into a wall outlet and turned ON.



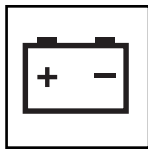
“POWER” LED: this green LED lights continuously when the UPS is ON and supplying connected equipment with AC power from a utility source. The LED flashes and an alarm sounds (4 short beeps followed by a pause) to indicate the UPS is operating from its internal batteries during a blackout or severe brownout. If the blackout or severe brownout is prolonged, you should save files and shut down your equipment since internal battery power will eventually be depleted. See “BATTERY CHARGE” LED description below.



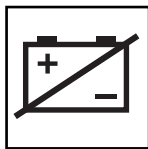
“VOLTAGE CORRECTION” LED: this green LED lights continuously whenever the UPS is automatically correcting high or low AC voltage on the utility line without the assistance of battery power. The UPS will also emit a slight clicking noise. These are normal, automatic operations of the UPS; no action is required on your part.



“OUTPUT LOAD LEVEL” LED: this multicolored LED indicates the approximate electrical load of equipment connected to the UPS's AC outlets. It will turn from green (light load) to yellow (medium load) to red (overload). If the LED is red (either illuminated continuously or flashing), clear the overload immediately by unplugging some of your equipment from the outlets until the LED changes from red to yellow (or green). CAUTION! Any overload that is not corrected by the user immediately may cause the UPS to shut down and cease supplying output power in the event of a blackout or brownout.



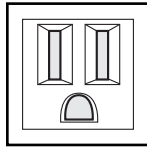
“BATTERY CHARGE” LED: when the UPS is operating from utility power, this LED indicates the approximate charge state of the UPS's internal batteries: red indicates the batteries are beginning to charge; yellow indicates the batteries are roughly midway through charging; and green indicates the batteries are fully charged. When the UPS is operating from battery power during a blackout or severe brownout, this LED indicates the approximate amount of energy (ultimately affecting runtime) which the UPS's batteries will provide: red indicates a low level of energy; yellow indicates a medium level of energy; and green indicates a high level of energy. Since the runtime performance of all UPS batteries will gradually deplete over time, it is recommended that you periodically perform a self-test (see MUTE/TEST Button description) to determine the energy level of your UPS batteries BEFORE a blackout or severe brownout occurs. During a prolonged blackout or severe brownout, you should save files and shut down your equipment since battery power will eventually be depleted. When the LED turns red and an alarm sounds continuously, it indicates the UPS's batteries are nearly out of power and UPS shutdown is imminent.



“BATTERY WARNING” LED: this LED lights red and an alarm sounds intermittently after you initiate a self test (see “MUTE/TEST” Button description) to indicate the UPS batteries need to be recharged or replaced. Allow the UPS to recharge continuously for 12 hours, and repeat the self-test. If the LED continues to light, contact Tripp Lite for service. If your UPS requires battery replacement, visit www.tripplite.com to locate the specific Tripp Lite replacement battery for your UPS.

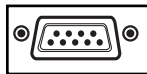
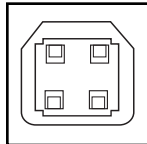
Basic Operation *continued*

Other UPS Features (Rear Panel)

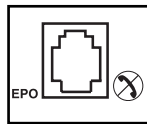


15 amp/120V
NEMA 5-15R

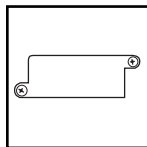
AC Receptacles: Your UPS features 15-amp AC outlets. These output receptacles, provide your connected equipment with AC line power during normal operation and battery power during blackouts and brownouts. The UPS protects equipment connected to these receptacles against damaging surges and line noise. If you have a serial or USB connection to your UPS, you can remotely reboot connected equipment by turning the receptacles OFF and ON using Tripp Lite's PowerAlert Software.



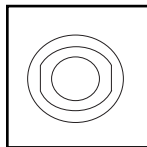
Communications Ports (USB or RS-232): These ports connect your UPS to any workstation or server. Use with Tripp Lite's PowerAlert Software and included cables to enable your computer to automatically save open files and shut down equipment during a blackout. Also use PowerAlert Software to monitor a wide variety of AC line power and UPS operating conditions. Consult your PowerAlert Software manual or contact Tripp Lite Customer Support for more information. See "USB and RS-232 Serial Communications" in the "Optional Installation" section for installation instructions.



EPO (Emergency Power Off) Port: Your UPS features a EPO port that may be used to connect the UPS to a contact closure switch to enable emergency inverter shutdown. See Optional Installation.



Accessory Slot: Remove the small cover panel from this slot to install optional accessories to remotely monitor and control your UPS. Refer to your accessory's manual for installation instructions. Contact Tripp Lite Customer Support at (773) 869-1234 for more information, including a list of available SNMP, network management and connectivity products.



Input Breaker: Protect your electrical circuit from overcurrent draw from the UPS load. If this breaker trips, remove some of the load, then reset it by pressing the breaker in.

Storage and Service

Storage

Before storing your UPS, turn it completely OFF: with the UPS ON and receiving utility power, press and hold the "ON/OFF/STANDBY" button for one second (an alarm will beep once briefly after the interval has passed); then, unplug the UPS from the wall outlet. If you store your UPS for an extended period of time, recharge the UPS batteries once every three months: plug the UPS into a wall outlet; allow it to charge for 12 hours; then unplug it and place it back in storage. Note: after you plug the UPS in, it will automatically begin charging its batteries; however, it will not supply power to its outlets (see Quick Installation section). If you leave your UPS batteries discharged for an extended period of time, they will suffer a permanent loss of capacity.

Service

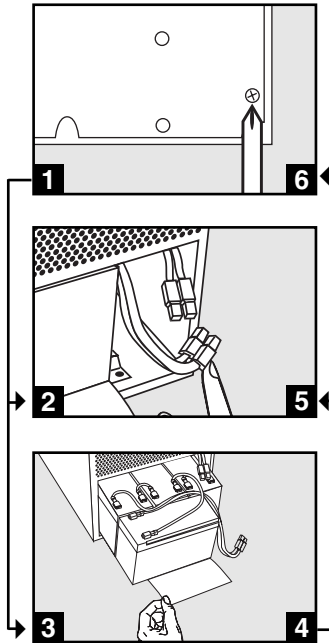
Before returning your UPS for service, follow these steps:

1. Review the installation and operation instructions in this manual to ensure that the service problem does not originate from a misreading of the instructions.
2. If the problem continues, do not contact or return the UPS to the dealer. Instead, call Tripp Lite at (773) 869-1233. A service technician will ask for the UPS's model number, serial number and purchase date and will attempt to correct the problem over the phone.
3. If the problem requires service, the technician will issue you a Returned Material Authorization (RMA) number, which is required for service. If you require packaging, the technician can arrange to send you proper packaging. Securely pack the UPS to avoid damage during shipping. Do not use Styrofoam beads for packaging. Any damages (direct, indirect, special, incidental or consequential) to the UPS incurred during shipment to Tripp Lite or an authorized Tripp Lite service center is not covered under warranty. UPS Systems shipped to Tripp Lite or an authorized Tripp Lite service center must have transportation charges prepaid. Mark the RMA number on the outside of the package. If the UPS System is within the 2-year warranty period, enclose a copy of your sales receipt. Return the UPS for service using an insured carrier to the address given to you by the Tripp Lite service technician.

Battery Replacement

Under normal conditions, the original batteries in your UPS will last many years. See Safety section before replacing batteries. The batteries are designed for hot-swap replacement (i.e. leaving the UPS in ON mode), but some qualified service personnel may wish to put the UPS in the OFF mode and disconnect equipment before proceeding.

Procedure



- 1 Remove Front Panel**
- 2 Disconnect Batteries**
- 3 Remove/Dispose of Batteries**
- 4 Add Batteries**
- 5 Connect Batteries**
Attach connectors: black-to-black and red-to-red.
- 6 Replace Front Panel**

Specifications

Model:	SMART700DV
Input Voltage:	120V or 230V AC (nominal), auto-sensing
Input Frequency:	50 or 60 Hz., auto-sensing
Input Receptacle:	IEC-320-C14 (Accepts detachable power cords. Included cord features NEMA 5-15 plug.)
Output Voltage:	120V AC
Output Frequency:	50 or 60 Hz.
Output Capacity (VA):	700
Output Capacity (Watts):	450
Output Receptacles:	6 NEMA 5-15R
Communications Ports:	1 USB, 1 RS-232
Emergency Power Off (EPO) Port:	1

The policy of Tripp Lite is one of continuous improvement. Specifications are subject to change without notice. This product designed and engineered in the USA.

FCC RADIO/TV INTERFERENCE NOTICE:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. Operation of this equipment is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. The user must use shielded cables and connectors with this product. Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Regulatory Compliance Identification Numbers

For the purpose of regulatory compliance certifications and identification, your Tripp Lite product has been assigned a unique series number. The series number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to the series number. The series number should not be confused with the marking name or model number of the product.

Note on Labeling

Two symbols are used on the label.

V~ : AC Voltage

V== : DC Voltage

Warranty Registration

Visit www.tripplite.com/warranty today to register the warranty for your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!*

* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.



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