



POWERLUXE

Owner's Manual

Battery-Operated Warming Tray
ST-350BP



Before You Begin

To ensure safe operation, read the following instructions in their entirety.

WARNING

Warning is used to indicate the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.

CAUTION

Caution is used to indicate the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.

NOTICE

Notice is used to note information that is important but not hazard-related.

To reduce risk of injury or damage to the equipment:

- Do not obstruct or cover the equipment in any way when in use. Ensure the product's environment is well ventilated
- Do not expose this product to water, rain, or snow
- Do not use accessories that are not recommended or sold by the manufacturer. For example, charger adapter or battery . This may result in fire, electric shock or personal injury
- When charging the product, plug only into grounded electrical outlets matching the nameplate rated voltage
- Do not operate unattended
- Closely supervise equipment operating in public areas and/or around children
- Do not operate if equipment has been damaged or is malfunctioning in any way
- Keep equipment and power cord away from open flames, electric burners or excessive heat
- Unplug when not in use

NOTICE

The warming tray will not come into direct contact with any food. When in use, food will be placed in a food tray, which will then be placed on the top of the warming tray. The food tray corresponding to the warming tray will be a stainless steel tray that complies with hygiene standards.



Maintenance

To extend the life of the Spring USA battery operated warming tray, maintain a certain amount of electricity during storage. If the battery is not used regularly, be sure to charge the unit once every 3 months.

NOTICE

If the battery is not used for a period longer than 3 months and there is no recharge, it may cause damage to the product.

Service & Repair

Never attempt to service any part of the Spring USA battery products. Attempting to service the unit on your own, or through an unauthorized repair facility, automatically voids your warranty. Contact our Service Department at 630-527-8600. For service forms, visit the Spring USA website.

Warranty

1 Year Limited Warranty, visit Spring USA website for more Information.

Specifications

Battery Capacity	24V, 20Ah
Battery Type	LiFePO4
Maximum Charging Current	10A
Maximum Operating Current	15A
Maximum Wattage Output	350W
Discharge Cut-off Voltage	20.5V
Charging Input Voltage	110V - 220V, 50 - 60Hz
Working Temperature	32°F (0°C) - 113°F (45°C)
Working Relative Humidity	85% RH
Storage Temperature	14°F (-10°C) - 140°F (60°C)
Gross Weight	29 lbs (with BP-500)
Dimensions	21" x 13.5" x 4"
Charge Time	2 Hours

Function

Spring USA's battery-operated warming tray is intended for use with Spring USA cookware and warming solutions. It is not intended to cook food. When a wall outlet is not available or within reach of the intended application site, Spring USA battery operated products can supply the necessary power for hours and be charged or swap the battery for repeated use.



Operation

Before use, be sure the battery has been fully charged. To charge the battery:

1. Connect the AC power adapter to the AC input on the back of the warming tray or plug the AC power adapter directly to the battery. Then connect the power cord into an AC wall outlet.
2. There is an LED on the AC power adapter that will alert the user when the battery is fully charged (GREEN LED), when the battery is still charging (RED SOLID LED). Also, the screen on the warming tray has a battery level indicator that will show the current battery charge level when the AC power adapter is plugged into the warming tray.
3. Once the battery is fully charged, unplug the input charging power cord from the battery. The battery is now ready to be used.

NOTE: To safely release the heat generated during battery pack charging process, when charging either the SM-500BP or ST-350BP, users must turn on the red main power switch located on the rear of the device, and keep the unit at least in standby mode. This ensures the cooling fan works correctly to dissipate heat generated during charging.

To use the warming tray:

1. Insert the battery into the battery slot on the back of the warming tray.
2. Flip the rocker switch on the back of the range to the ON position. “Beep” / “Chime” should be heard once the unit is ON.

NOTE: Remove the thumb screws from the back of the warming tray before inserting the battery. Once the battery is inserted correctly, place back the thumb screws to ensure the battery is secure in place.

3. Press and hold the ON button for 5 seconds to turn the range ON.
4. The induction range is equipped with 4 temperature levels:

Power Level (1): 120°F -140°F
Power Level (2): 141°F -160°F
Power Level (3): 161°F - 190°F
Power Level (4): 191°F - 221°F

NOTICE

The range should “Beep” again once the power button is pressed for 3 seconds.

5. To select a power level, press and hold the ‘UP’ or ‘DOWN’ button for 5 seconds until a “Beep” is heard, then using single presses, you can increase the power level or decrease it by pressing the ‘UP’ or ‘DOWN’ button. Once the level is selected, the number selection would stop flashing and switch to a solid level.

6. To turn OFF the warming tray, press the ON/OFF button on the panel.

NOTE: The warming tray will default to Power Level (1) once turned ON.



NOTE: The button will need to be pressed for 1 second to turn OFF. The indicator on the screen will then be off.

Reference **Figure 1** for an illustration of the control panel.



Figure 1. Control Panel

Troubleshooting

Error	Cause	Solution
“No battery power” light is illuminated.	The battery charge has been exhausted.	The battery charge has been exhausted.
“Output overload light” is illuminated.	Power of connected appliance is too large.	Turn the AC product off and unplug from the battery. Only use an AC product below 1000W.
“Internal temp too high” light is illuminated.	Power consumption is too high and causing the internal temperature to rise.	Turn the AC product and battery off. Allow the battery to cool.



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