Battery Charger P5 Operating Instructions

Introduction

This product is a lithium-ion battery charger for SG 3120B SFNw. Before using this product, read this leaflet carefully in order to use the product safely. Keep this leaflet in a handy place for quick reference.

For details about handling the battery, see the Getting Started.

Disclaimer

Contents of this manual are subject to change without prior notice.

Safety Information

Safety During Operation

In this manual, the following important symbols are used:

↑ WARNING:

Indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

↑ CAUTION:

Indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

Safety Precautions to Be Followed

Environments where the machine can be used

MARNING:

 Do not use flammable sprays or solvents in the vicinity of this machine. Also, avoid placing these items in the vicinity of this machine. Doing so could result in fire or electric shock.

↑ WARNING:

 Do not place vases, plant pots, cups, toiletries, medicines, small metal objects, or containers holding water or any other liquids, on or close to this machine. Fire or electric shock could result from spillage or if such objects or substances fall inside this machine.

↑ CAUTION:

• Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur.

↑ CAUTION:

• Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.

↑ CAUTION:

 Do not place heavy objects on the machine. Doing so can cause the machine to topple over, possibly resulting in injury.

A CAUTION:

 Do not place the power cord and connection cable in a way that might cause someone to trip and fall. The product might fall over and cause an injury.

CAUTION:

 For safety, be sure to disconnect the power plug from the wall outlet after using the product or when the product is not going to be used for some time.

A CAUTION:

For safety, be sure not to use the product with a blanket or cloth over it.

Handling power cords and power plugs

↑ WARNING:

 Do not use any power sources other than those that match the specifications shown in this manual. Doing so could result in fire or electric shock.

⚠ WARNING:

• Do not use any frequencies other than those that match the specifications shown. Doing so could result in fire or electric shock.

↑ WARNING:

 Do not use multi-socket adaptors. Doing so could result in fire or electric shock.

↑ WARNING:

 Do not use extension cords. Doing so could result in fire or electric shock.

↑ WARNING:

 Do not use power cords that are damaged, broken, or modified. Also, do not use power cords that have been trapped under heavy objects, pulled hard, or bent severely. Doing so could result in fire or electric shock.

⚠ WARNING:

 It is dangerous to handle the power cord plug with wet hands. Doing so could result in electric shock.

↑ WARNING:

 Touching the prongs of the power cable's plug with anything metallic constitutes a fire and electric shock hazard.

↑ WARNING:

The supplied power cord is for use with this machine only. Do not use
it with other appliances. Doing so could result in fire or electric shock.

↑ WARNING:

 If the power cord is damaged and its inner wires are exposed or broken, contact your service representative for a replacement. Use of damaged power cords could result in fire or electric shock.

MARNING:

- Be sure to disconnect the plug from the wall outlet at least once a year and check for the following:
 - There are burn marks on the plug.
 - The prongs on the plug are deformed.
- If any of the above conditions exist, do not use the plug and consult your dealer or service representative. Use of the plug could result in fire or electric shock.

↑ WARNING:

- Be sure to disconnect the power cord from the wall outlet at least once a year and check for the following:
 - The power cord's inner wires are exposed, broken, etc.
 - · The power cord's coating has a crack or dent.
 - When bending the power cord, the power turns off and on.
 - · Part of the power cord becomes hot.
 - The power cord is damaged.
- If any of the above conditions exist, do not use the power cord and consult your dealer or service representative. Use of the power cord could result in fire or electric shock.

A CAUTION:

 When disconnecting the power cord from the wall outlet, always pull the plug, not the cord. Pulling the cord can damage the power cord. Use of damaged power cords could result in fire or electric shock.

↑ CAUTION:

Be sure to push the plug of the power cord fully into the wall outlet. Partially inserted plugs create an unstable connection that can result in unsafe buildup of heat.

CAUTION:

 Be sure to disconnect the plug from the wall outlet and clean the prongs and the area around the prongs at least once a year. Allowing dust to build up on the plug constitutes a fire hazard.

A CAUTION:

 If this machine is not going to be used for several days or longer at a time, disconnect its power cord from the wall outlet.

A CAUTION:

 When performing maintenance on the machine, always disconnect the power cord from the wall outlet.

Handling the main machine

↑ WARNING:

- The following explains the warning messages on the plastic bag used in this product's packaging.
 - Keep the polythene materials (bags, etc.) supplied with this machine away from babies and small children at all times. Suffocation can result if polythene materials are brought into contact with the mouth or nose.

↑ WARNING:

Be sure to locate the machine as close as possible to a wall outlet.
 This will allow easy disconnection of the power cord in the event of an emergency.

↑ WARNING:

If the machine emits smoke or odor, or if it behaves unusually, disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.

MARNING:

If metal objects, water or other fluids fall inside this machine, disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the machine. Doing so could result in fire or electric shock.

↑ WARNING:

• Do not touch this machine if a lightning strike occurs in the immediate vicinity. Doing so could result in electric shock.

↑ WARNING:

 Do not touch the terminals with your hand or a metal object. Doing so may cause a short circuit, resulting in smoke or fire.

CAUTION:

Unplug the power cord from the wall outlet before you move the machine.
 While moving the machine, take care that the power cord is not damaged under the machine. Failing to take these precautions could result in fire or electric shock.

Handling the machine's interior

↑ WARNING:

 Do not attempt to disassemble or modify this machine. Doing so risks burns and electric shock.

Handling AC adapter

↑ WARNING:

 Do not use any power sources other than those that match the specifications shown. Doing so could result in fire or electric shock.

 Do not damage, break, or modify the AC adapter or cord of the AC adapter. Also, do not place heavy objects on the cord of the AC adapter, or pull the cord or bend it severely. Doing so could result in fire or electric shock.

↑ WARNING:

 The supplied AC adapter is for use with this machine only. Do not use it with other appliances. Doing so could result in fire or electric shock.

↑ WARNING:

 Do not use the AC adapter or cord of the AC adapter if it is deformed, cracked, or damaged. Doing so could result in fire or electric shock.
 If the AC adapter or cord of the AC adapter is deformed, Cracked, or damaged, contact your service representative to request a replacement cable.

A CAUTION:

 Push the AC adapter all the way into the power outlet. Do not use a power outlet with a loose connection. Doing so may result in heat buildup. Plug the AC adapter and cord of the AC adapter in the correct direction into the base. If they are not plugged in correctly, it could result in smoke, fire, or electric shock.

↑ CAUTION:

When disconnecting the plug of the AC adapter from the wall outlet, always
pull the AC adapter, not the cord of the AC adapter. Pulling the cord can
damage the cord. Use of damaged cords of the AC adapter could result in
fire or electric shock.

A CAUTION:

 Do not disassemble or modify the AC adapter. Doing so may result in burns or electric shock. Contact your service representative if the AC adapter needs repaired.

A CAUTION:

 Do not wrap the AC adapter cord around the AC adapter. If the cord is damaged or the inner wire is exposed, it may result in fire, electric shock, or burns.

CAUTION:

 It is recommended that you do not touch the AC adapter when using the product. Possible heat buildup in the AC adapter may cause burns.

About the Batteries

↑ WARNING:

- For safe operation, follow the warnings below regarding the battery. If you use a battery incorrectly, it may result in fire or injury due to battery leaking or exploding.
 - Do not leave the battery in a place where the temperature is likely to be high, such as in a vehicle or strong sunlight. Doing so may cause abnormal heating, rupture, or fire.
 - · Do not place the batteries in fire or water.
 - Do not place the battery in an induction heating cooker or a microwave oven.
 - Do not use batteries other than the ones supplied.
 - Do not use the battery with devices other than the specified machine.
 - Do not recharge the battery using a method other than the specified recharging method.
 - Do not disassemble, modify or solder the battery.
 - Do not use the battery if it has received an impact—for example, by being dropped.
 - · Do not nail, hammer, or crush the battery.
 - Do not connect the connecting terminals on a battery with a wire.
 - Do not carry or store the battery with a metal object, such as a necklace or hairpin. Doing so may cause the battery to short-circuit, resulting in abnormal heating, rupture, or fire.
 - If abnormal heating or deformation of the battery occurs during recharging, discharging, or storage, immediately stop using the battery and remove it from the machine.
 - If the machine is to be left unused for a long time, remove the battery and store it in a cool, dry place.
 - Keep the batteries out of the reach of children.

↑ WARNING:

- What to do if a battery has leaked.
 - If leakage from a battery adheres to your skin, rinse it with water immediately, and then contact a doctor.
 - Wipe off the leakage with tissue paper while being careful not to touch it.
 - Soak the tissue paper that you used in water, and then throw it away as burnable trash.

A CAUTION:

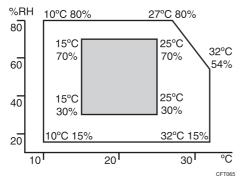
 Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions. For details, see "About the Battery" in Getting Started.

Notice

To move the battery charger, first remove the battery and insulate the battery terminals with tape or put the battery in the plastic bag or the box it was delivered in. Moving the battery charger with the battery may result in a short circuit, causing smoke or fire.

To maximize the battery life, recharge, use, and store it in an environment with an ambient temperature of 10 to 32°C. Be careful about recharging, using, or storing the battery in an environment with an ambient temperature of 40°C or above. Doing so will cause the battery to deteriorate.

To prevent condensation, install the machine in an area where temperature and humidity conditions do not exceed those indicated in the diagram below.



- □: Permissible Range
- □: Recommended Range

Information for This Machine

Notes to USA Users of FCC Requirements

Part 15 of the FCC Rules

This device complies with part 15 of the FCC Rules.

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.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

❖ 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 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 more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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.

Caution:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For users in the state of California

Perchlorate Material - special handling may apply. See: www.dtsc.ca.gov/haz-ardouswaste/perchlorate

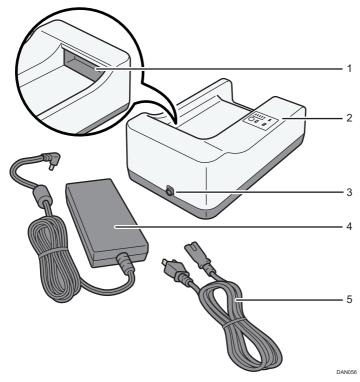
Notes to Canadian Users of ICES-003 Conformance

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

Remarques à l'attention des utilisateurs canadiens

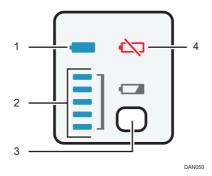
CAN ICES-3 (B)/NMB-3(B)

Guide to Components



- 1. Terminal
- 2. Battery indicator
- 3. AC adapter port
- 4. AC adapter
- 5. Power cord

Names of Battery Indicator Parts



1. LED battery status indicator

This displays the battery's operating status. Lit continuously: The machine is operating under battery power. Unlit: Completed battery charging

2. LED battery level indicator

This displays how much charge is left in the battery in six levels according to the number of lamps lit.

5: 81-100 %; 4: 61-80%; 3: 41-60 %; 2: 21-40 %; 1: 1-20 %; 0: 0 % The LED battery level indicator merely gives a rough indication of the battery level. The battery level will be slightly higher than it actually is while the battery is being charged.

3. Battery level check button

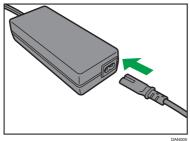
Press this to check the charge level.

4. Battery alert LED

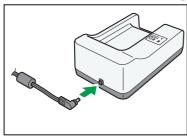
This flashes when the battery cannot be charged if a battery malfunction or the temperature rises higher than the temperature limit allowed for charging. For details, see page 14 " Troubleshooting".

Charging the Battery

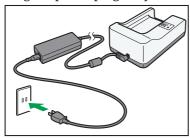
- Use the battery in an environment with an ambient temperature of 0 to 40°C. If the battery temperature exceeds 60°C, charging automatically stops.
- Do not touch the terminals of the battery or battery charger. Doing so may cause a malfunction.
- 1 Attach the power cord to the AC adapter.



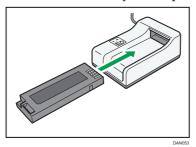
2 Connect the cord of the AC adapter to the battery charger.



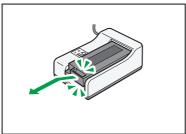
Plug the power plug fully into the wall outlet.



Mount the battery on the battery charger so that the side with the terminal and the battery faces up.



Pull the battery out while lifting it slightly.



Troubleshooting

- The battery alert LED lights up.
 - The battery temperature may have exceeded the battery limit. If the battery temperature drops below 0°C or rises above 60°C, charging automatically stops. Use the battery in an environment with an ambient temperature of 0 to 40°C.
- Charging does not start. / The LED battery status indicator does not light up.
 - Check that the power cord, AC adapter connector, and power plug are all connected correctly. If they are connected correctly, the LED on the AC adapter lights.
 - Check that the battery is mounted correctly.
- Battery charging is not complete.
 - The battery's life (5 years) may have expired. Replace the battery with a new one.
- The battery remaining battery level is not indicated even when the battery level check button is pressed.
 - Check that the power cord, AC adapter connector, and power plug are all connected correctly.
 - Check that the battery is mounted correctly.

If the problem persists, mount the battery on the SG 3120B SFNw. If the operation panel's LEDs do not light, the battery or battery charger may be faulty. Stop using it immediately and contact your sales or service representative.

Cleaning

To clean the exterior of the machine, wipe it with a soft, dry or damp cloth. If the dirt does not come off, wipe the machine first with a cloth moistened with a neutral detergent, then with a damp cloth, and finally with a dry cloth.

- Do not use volatile chemicals like benzene or thinner, or insecticides on the machine. Using these chemicals could deform, crack, or change the color of the machine.
- When wiping the machine with a cloth moistened with detergent, be sure to wipe only the exterior.

Specifications

Power source

100-240V 50/60Hz 1.5A

Use a power source whose output voltage is within $\pm 10\%$ of the rated voltage.

❖ Power consumption

Standby: 0.5 W

During charging: 50 W

Battery charging time

Approximately three hours

External dimensions

 $(W \times D \times H)$ 214 × 137 × 82 mm $(8.6 \times 5.5 \times 3.3 \text{ inches})$

❖ Weight

Battery charger: 0.5 kg AC adapter: 0.5 kg

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