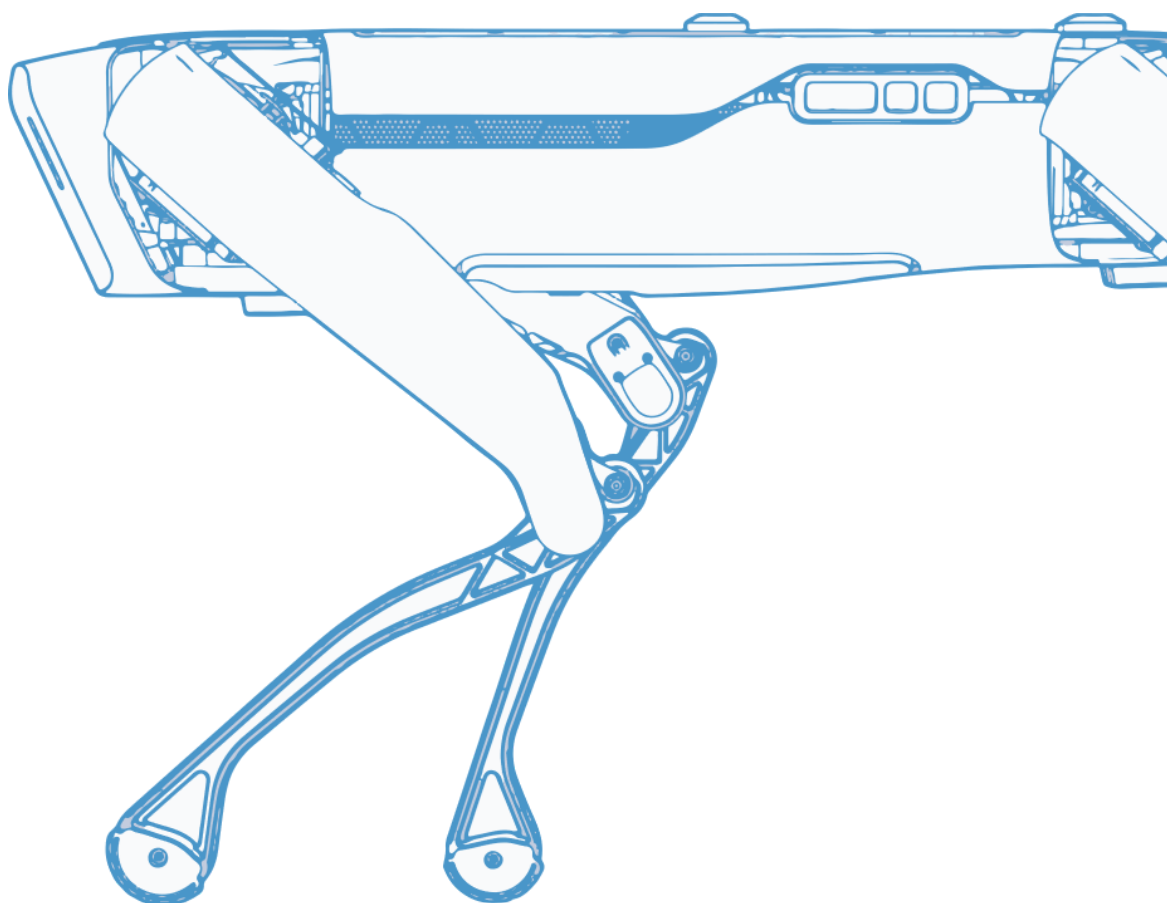




# Spot Power Supply Information for Use (IFU)

v1.0 Original instructions



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v1.0 March 2021  
Original Instructions

Boston Dynamics  
200 Smith Street  
Unit 4100  
Waltham, MA 02451  
USA

(617) 868-5600

[support@bostondynamics.com](mailto:support@bostondynamics.com)

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# 1 Introduction

This document contains critical safety information.

Responsible use of Spot is crucial to prevent dangerous conditions for operators and others nearby. Make sure to read, understand and comply with this document to lessen the risk of injuries or damage to the robot or other property.

Please read the entire document before using Spot and keep the document in a readily accessible location afterwards.

## 1.1 Manufacturer information

Spot is manufactured by:

Boston Dynamics, Inc.  
200 Smith Street  
Unit 4100  
Waltham, MA 02451  
USA

## 1.2 Specifications

Input voltage: 100-240VAC 50/60Hz 5.5A Max

Output: 35-58.6 VDC 7.2A Max

Operating temperature: 0° to 40°C

## 2 Product safety overview



To reduce the risk of electric shock and fire:

- Use a properly grounded outlet. Do not use ground adapters or replace plug.
- Do not touch uninsulated parts of the output connector or battery terminals.
- Do not open or disassemble the charger.
- Do not use if the AC cord is damaged.

### 2.1 Intended use

The Spot Power Supply is intended to be used only with the Spot Robot and the battery pack used with the Spot robot.

### 2.2 Before starting

Because the Power Supply is used with the Spot robot, users need to familiarize themselves with Spot. General instructions about Spot setup are in the Spot Information for Use. Please familiarize yourself with these instructions before using the Power Supply.



Before setting up Spot Power Supply, ensure you have enough room and clearances around the robot so it can be safely operated.

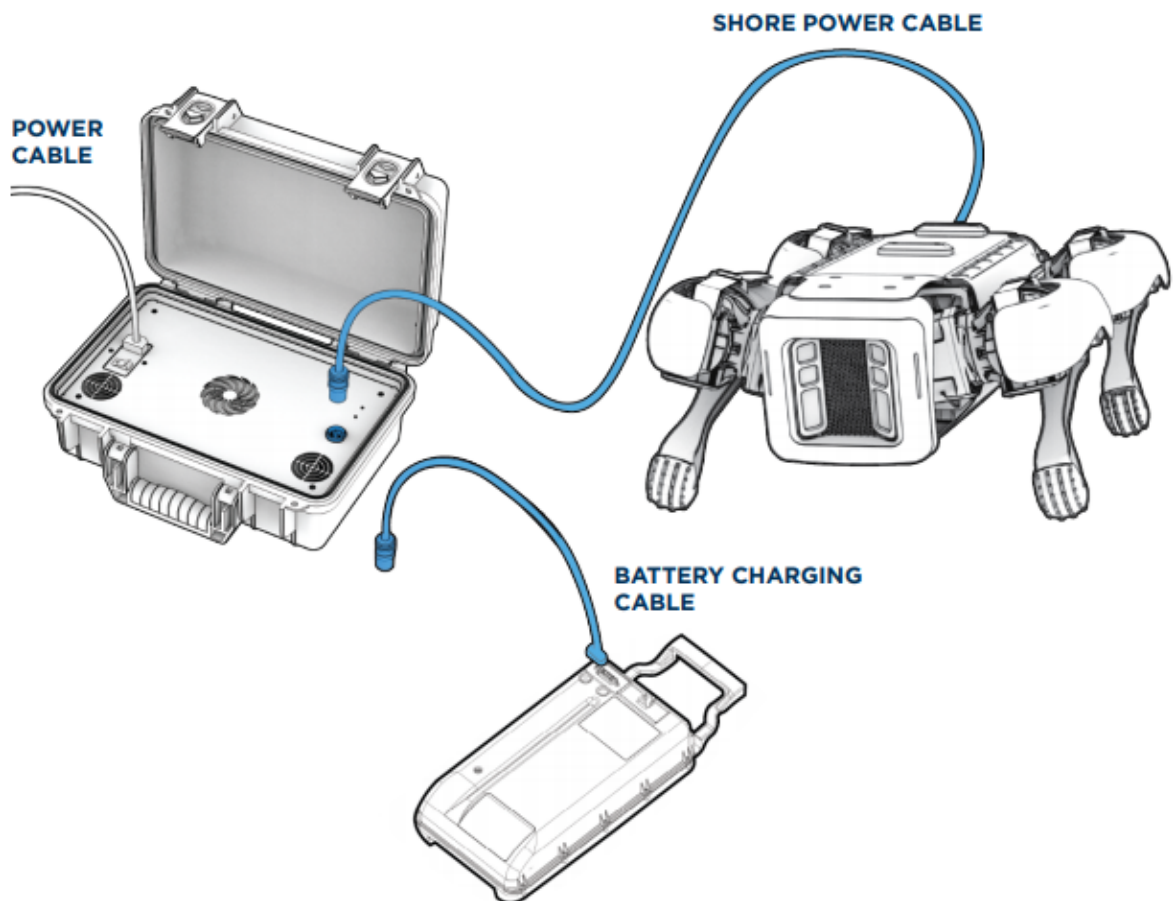
Ensure a separation distance of at least 2 m from Spot before operation.

## 2.3 Battery Charging

Spot is powered by a removable lithium-ion battery pack. The battery can be charged standalone or while inside the robot.

The charger comes with three cables:

- Power cable: From charger to wall (AC)
- Shore power cable: From charger to Spot
- Battery charging cable: From charger to battery



### **Charging a standalone battery:**

Use the battery charging cable to connect the charger to a standalone battery. The

charger light will blink green while the battery is being charged and switch to solid green when the battery is fully charged.

### Charging a battery in Spot:

Use the shore power cable to connect the charger to the robot and charge a battery in Spot. Carefully insert the charging cable into the charging port at the back of Spot shown on page 5. The battery will begin charging regardless of whether Spot's computers are powered on or off. The motors will not turn on while the power cable is inserted.

**NOTE:** The cable only inserts one way, indicated with a white dot on the connector. Make sure the white dot faces down. Don't force the connector; inserting it at an off-angle can cause damage.



### WARNING

Only charge battery with the charger provided by Boston Dynamics.

Only use the Spot battery provided by Boston Dynamics.

Do not short-circuit, burn, disassemble, submerge, puncture, crush, drop, or damage the battery.

If a battery fire starts, do not try to put it out. Evacuate to a safe area and call the fire department. Battery fires create toxic fumes and cannot be put out with conventional fire extinguishers or water.



### WARNING

To reduce the risk of electric shock and fire:

- Use a properly grounded outlet. Do not use ground adapters or replace plug.
- Do not touch uninsulated parts of the output connector or battery terminals.
- Do not open or disassemble the charger.
- Do not use if the AC cord is damaged.

## 2.4 Battery charging operating environment

Operating temperature: 0°C to 40°C

Input: 100-240 VAC, frequency 50/60Hz, Current 5.5A

Max charge time: 2.5 hours



## 3 Maintenance

No maintenance is necessary for the Power Supply. However, should dust or debris get deposited on the power supply while the case is open, please follow these directions for cleaning:

- Only clean while the power supply is off.
- Before conducting any cleaning, make sure the power supply is disconnected from the Spot robot.
- Wipe out or vacuum excessive debris away from the power supply.

## 4 Compliance statement

### 4.1 EU Declaration of Conformity

Products in the scope of the Declaration of Conformity:

- Spot Power Supply (Model: 02-044200-001)

Listed products fulfil all the relevant provisions of the following directives:

- Low Voltage Directive 2014/35/EU and amend. (LVD). The harmonized standards used for Presumption of Conformity to the LVD, as referenced in Art. 13 of the LVD are: EN 62368-1 2014 +A11:2017
- EMC Directive 2014/30/EU and amend. (EMCD), . The harmonized standards used for Presumption of Conformity to the EMCD, as referred to in Art. 13 of the EMCD are: EN 55032:2015, EN 61000-3-2 :2014, EN 61000-3-3: 2013, EN 55035:2017

### 4.2 Markings

