



The Mobile Robot Company

Knowledge Center — Automatic Charger · 2026-08-04

<https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger>

Automatic Charger

The automatic charger is an optional charging station that the [J1600](https://info.mobilerobot.com/products/j1600/overview/) docks with on its own. It removes charging from the operator's task list and enables [opportunity charging](https://info.mobilerobot.com/applications/scenarios/automatic-charging/) whenever the robot is not busy.

How it works

1. The robot drives to the charging station.
2. It positions itself at the charger.
3. A charging interface extends from the station to the charging plates on the vehicle.

Every J1600 carries an automatic-charging interface as part of its hardware. Automatic charging is an advanced automation capability, alongside [come-to-me](https://info.mobilerobot.com/applications/scenarios/come-to-me/), [VDA 5050](https://info.mobilerobot.com/documentation/concepts/vda-5050-explained/), fleet management, and [API integrations](https://info.mobilerobot.com/documentation/technical-integration/rest-api-documentation/).

Opportunity charging

Because docking needs no person, the robot can top up between tasks instead of waiting for a scheduled plug-in. Combined with a charging rate of approximately 47 percentage points per hour on the [24 V, 200 Ah LiFePO4 battery](https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/), this keeps the vehicle available through the working day. Typical-duty-cycle runtime exceeds eight hours.

Setup

When the automatic charger is purchased, its setup is part of Day 1 of the [installation and commissioning](https://info.mobilerobot.com/products/buying-and-deployment/installation-and-commissioning/) package, together with unboxing, optional Wi-Fi connection, drop-point creation, and task and safety validation.

Safety

The [charging-current relay](https://info.mobilerobot.com/safety-compliance/safety-functions/charging-safety/) (<https://info.mobilerobot.com/safety-compliance/safety-functions/charging-safety/>) is a defined safety function with [Performance Level PL b](https://info.mobilerobot.com/safety-compliance/safety-functions/performance-levels/) (<https://info.mobilerobot.com/safety-compliance/safety-functions/performance-levels/>). For the vehicle's complete safety design, see [how J1600 safety works](https://info.mobilerobot.com/safety-compliance/safety-overview/how-j1600-safety-works/) (<https://info.mobilerobot.com/safety-compliance/safety-overview/how-j1600-safety-works/>).

Price

Item	2026 end-user list price
Automatic charger	€8,400

The [manual charger](https://info.mobilerobot.com/products/chargers-and-accessories/manual-charger/) (<https://info.mobilerobot.com/products/chargers-and-accessories/manual-charger/>) is the lower-cost alternative at €3,600. See [Available options](https://info.mobilerobot.com/products/chargers-and-accessories/available-options/) (<https://info.mobilerobot.com/products/chargers-and-accessories/available-options/>) for all list prices.