



The Mobile Robot Company

Knowledge Center — Charger Installation · 2026-08-04

<https://info.mobilerobot.com/documentation/installation/charger-installation>

Charger Installation

The J1600 charges from either a manual charger or an [optional automatic charging station](https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger/) (<https://info.mobilerobot.com/products/chargers-and-accessories/automatic-charger/>). This page covers how each option works, what to plan for at the site, and the battery figures that drive charger placement decisions.

PRELIMINARY SPECIFICATIONS

The January 2026 [specifications](https://info.mobilerobot.com/products/j1600/technical-specifications/) (<https://info.mobilerobot.com/products/j1600/technical-specifications/>) are preliminary and subject to change.

Choose a charging option

Option	End-user list price (2026)	How it works
Manual charger	€3,600	Plug in the charger during a break or whenever the machine is idle — the same routine as a conventional electric pallet jack.
Automatic charger	€8,400	The robot drives to the station, positions itself at the charger, and a charging interface extends to the vehicle's charging plates.

INFO

A charger is not included in the J1600's €65,000 base price. Plan the charger as a separate line item.

Manual charging

[Manual charging](https://info.mobilerobot.com/products/chargers-and-accessories/manual-charger/) (<https://info.mobilerobot.com/products/chargers-and-accessories/manual-charger/>) needs no robot configuration: pick a spot with a power outlet near where the

machine idles, and plug in during natural pauses — before lunch, between shifts, or overnight. It fits single-robot deployments where an operator is always nearby.

Automatic charging

[Automatic charging](https://info.mobilerobot.com/applications/scenarios/automatic-charging/) (<https://info.mobilerobot.com/applications/scenarios/automatic-charging/>) is an advanced automation capability that enables **opportunity charging**: the robot tops up on its own whenever it is not busy, without an operator remembering to plug it in.

Placement notes:

- The station needs [level floor](https://info.mobilerobot.com/documentation/installation/floor-requirements/) (<https://info.mobilerobot.com/documentation/installation/floor-requirements/>) and enough approach space for the robot to position itself in front of the charger.
- If you purchase the automatic charger with the [commissioning package](https://info.mobilerobot.com/documentation/installation/deployment-checklist/) (<https://info.mobilerobot.com/documentation/installation/deployment-checklist/>), its setup is part of on-site Day 1.

Battery figures for planning

The J1600 uses a [24 V, 200 Ah lithium iron phosphate \(LiFePO4\) battery](https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/) (<https://info.mobilerobot.com/documentation/technical-reference/battery-specifications/>).

Parameter	Value
Charging rate	approximately 47 percentage points per hour
Drain, driving fully loaded	approximately 13% per hour
Drain, driving without load	approximately 12% per hour
Drain, standby	approximately 2% per hour

Runtime exceeds eight hours in a typical duty cycle. The drain rates imply roughly 7.7 hours of continuous fully loaded driving or 8.3 hours unloaded, but these are calculated figures — not guaranteed runtimes — before allowing for standby, lifting, duty cycle, battery reserve, and operating conditions. For a single-shift operation, a manual charge during breaks or an automatic station for opportunity charging comfortably covers the day.

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 certified safety function rated PL b — part of the layered safety architecture described in [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/>).

Before delivery

- Decide manual or automatic and order accordingly — automatic-charging setup on Day 1 only happens when the charger is purchased.
- Reserve the floor location and power supply as part of your [site readiness check](https://info.mobilerobot.com/documentation/installation/site-readiness-guide/) (<https://info.mobilerobot.com/documentation/installation/site-readiness-guide/>).