

# SchoolTech

## 32 AC Charging Trolley

Instruction Manual | 32 Devices

| Specification         | Details                                                                      |
|-----------------------|------------------------------------------------------------------------------|
| Device Capacity       | Up to 32 devices                                                             |
| Charging Type         | AC mains power — Bring Your Own Charger (BYOC)                               |
| AC Outlets            | 32 individual AC outlets (one per slot) housed in rear service cabinet       |
| Charger Compatibility | Compatible with any manufacturer-supplied AC power adaptor or charger        |
| Charging Modes        | Always On   Timer Mode   Cycle Mode                                          |
| Power Input           | 200–240 V~, 50/60 Hz, 10 A                                                   |
| Power System          | Intelligent Smart Power Management with programmable timer                   |
| Plug Type             | 1.5 m Australian 10 A plug with earth pin                                    |
| Cable Management      | Cables routed from rear service cabinet through internal guides to each slot |
| Rear Service Cabinet  | Lockable rear compartment housing all AC outlets and stored chargers         |
| Ventilation           | Rear and side vents for optimal airflow                                      |
| Security              | Lockable front and rear doors with keyed entry                               |
| Mobility              | Smooth-rolling wheels with locking brakes                                    |
| Construction          | Heavy-duty powder-coated steel                                               |
| Certifications        | RCM compliant — certified to Australian electrical standards                 |
| Dimensions            | 63 cm W × 63 cm D × 113 cm H   65 kg                                         |

# 1. Safety Instructions

Read all safety instructions carefully before use. Failure to comply may result in electric shock, fire, or personal injury. Keep this manual for future reference.

## 1.1 Electrical Safety

### **WARNING — Electrical Hazard**

- Do not apply external force to any power cord, and never unplug by pulling the cord.
- Do not use a coiled or tightly bound cord connected to the power supply.
- Keep all cords and chargers well away from heat sources and heating elements.
- Do not bend or deform the plug blades or pins.
- If you notice unusual sounds, smoke, or odours, unplug the unit immediately.
- Do not use a damaged cable or charger — this may cause fire or electric shock.
- Do not unplug with wet hands — this may cause electric shock.
- Unplug the power cord if the unit will not be used for an extended period.
- Ensure the unit is plugged in firmly and securely at all times.
- Devices with Class I construction must be connected to a mains socket with a protective earth (ground) connection.
- To completely disconnect the unit from mains power, unplug the power cord from the wall outlet. The mains plug must remain easily accessible at all times.

## 1.2 Charger & Adaptor Safety

### **WARNING — Third-Party Chargers**

- Only use manufacturer-supplied or certified replacement AC chargers and adaptors for each device.
- Never use uncertified, counterfeit, or visibly damaged chargers in this trolley.
- Do not mix charger types or use chargers with a higher wattage than specified for the device.
- Inspect all chargers and cables before storing them in the rear service cabinet. Remove any damaged items immediately.
- Do not overload individual AC outlets — use only one charger per outlet.
- Ensure charger cables are not pinched, kinked, or trapped by the cabinet doors or slot dividers.

## 1.3 Physical Safety

### **CAUTION — Safe Handling**

- Move the trolley slowly and carefully, paying close attention to your surroundings.
- Ensure all doors are securely latched before moving the trolley.
- Remove any devices or objects placed on top of the unit before moving.
- Never move the trolley down stairs.
- Do not place liquids near the trolley.
- Do not roll the trolley over the power cord or any charger cables.
- Do not connect or use this unit with broken or damaged components.

- Do not obstruct ventilation holes — these are required for proper airflow.
- Do not insert sharp objects into the ventilation holes (risk of fire or electric shock).
- Do not disassemble the charging cabinet unless explicitly instructed by the manufacturer.

## 1.4 Electrical Installation

### **IMPORTANT — Electrical Installation**

- Always turn the power switch to the OFF position before: (1) unplugging or plugging the unit into a wall outlet, or (2) connecting or disconnecting any chargers or devices.
- Do not use an extension cord with this unit.

## 2. How the AC Charging Trolley Works

The SchoolTech 32 AC Charging Trolley uses a Bring Your Own Charger (BYOC) approach. Each device's manufacturer-supplied AC charger is stored and connected inside the rear service cabinet, with the charging cable fed through the internal cable guides to reach the device sitting in its slot.

This design means the trolley is compatible with virtually any laptop, Chromebook, or tablet that charges via an AC adaptor — regardless of brand, connector type, or wattage.

### 2.1 Internal Layout

- 32 individual AC outlets are housed inside the rear service cabinet — one outlet per device slot.
- The rear service cabinet is accessed via the lockable rear door.
- Chargers and adaptors are stored inside the rear cabinet, plugged into their assigned outlet.
- Each charger cable is routed from the rear cabinet through the internal cable guides and slot dividers to reach the device in the corresponding front slot.
- The front of the trolley provides 32 individual slots separated by dividers for secure device storage.

### 2.2 Device Slots & Dividers

- Devices sit upright in individual slots, separated by adjustable dividers.
- Each slot accommodates one device. Do not place more than one device per slot.
- The dividers have cable routing openings to allow the charger cable to pass through neatly from the rear cabinet to the device.
- Ensure the charging cable is not strained, kinked, or sharply bent at the routing point.

#### **TIP — Cable Routing**

- Route cables through the designated openings in the slot dividers before placing the device in the slot.
- Leave enough slack in the cable to allow the device to be inserted and removed without pulling on the charger plug.
- Coil any excess cable neatly inside the rear service cabinet — do not bunch cables tightly.

## 3. Initial Setup & Charger Installation

Follow these steps when setting up the trolley for the first time or when installing chargers for a new set of devices.

### 3.1 Installing Chargers in the Rear Service Cabinet

#### **IMPORTANT — Power Off Before Setup**

- Always ensure the trolley is powered OFF and unplugged from the wall before installing, removing, or rearranging chargers inside the rear service cabinet.

- Unlock and open the rear service cabinet door using the provided key.
- Identify the AC outlet that corresponds to the slot number you are setting up.
- Plug the device's manufacturer-supplied AC charger into the assigned outlet.
- Feed the charger cable through the internal cable guide and through the corresponding slot divider opening toward the front of the trolley.
- Leave sufficient cable length at the front to comfortably reach the device charging port without strain.
- Repeat for all remaining devices and outlets.
- Once all chargers are installed, neatly arrange any excess cable inside the rear cabinet. Close and lock the rear door.

### 3.2 Loading Devices into Slots

- Place each device upright into its designated slot from the front of the trolley.
- Connect the charger cable (fed through from the rear) to the device's charging port.
- Ensure the cable is not pinched by the device or the slot divider.
- Close and latch the front door once all devices are loaded.

### 3.3 Removing Devices

- Unlock and open the front door.
- Disconnect the charger cable from the device before lifting the device out of the slot.
- Do not pull the device out by the cable — always disconnect first.
- Return the device to the same numbered slot to maintain cable organisation.

## 4. Smart Power Management

The SchoolTech 32 AC Charging Trolley is equipped with an intelligent Smart Power Management system that controls the 32 AC outlets in the rear service cabinet. Three operating modes allow you to optimise charging schedules, manage circuit load, and automate after-hours power management.

### IMPORTANT — How Power Groups Work

- The 32 AC outlets are divided into groups. In Always On mode, all groups energise sequentially at approximately 1-minute intervals to avoid inrush current.
- In Cycle Mode, only one group is powered at a time — rotating through all groups. This significantly reduces peak current draw, which is particularly useful where circuit capacity is limited.

### Mode 1: Always On (Default)

**Overview:** Delivers continuous power to all AC outlet groups. Power-up is sequenced across groups to avoid inrush current. All 32 outlets remain active until the unit is manually switched off.

**Setup steps:**

1. Apply mains power and turn the unit on.
2. Press SWITCH once to enter standby, then select Always On (if not already selected).
3. Press SWITCH again to run. Outlet groups energise one after another at approximately 1-minute intervals.
4. Power remains on continuously until manually turned off — there is no auto-off in this mode.

**Best used when:** You need immediate, uninterrupted charging across all 32 devices, such as during a busy school day or when overall current draw is within circuit limits.

### Mode 2: Timer Mode

**Overview:** Runs for a user-defined duration (in minutes) then switches off all AC outlets automatically. Outlet groups are brought online in sequence during start-up to avoid inrush current.

**Setup steps:**

1. Apply mains power, turn on, then press SWITCH to enter standby.
2. Select Timer Mode.
3. Set the desired duration using the Min×100, Min×10, and Min×1 buttons, then press ENTER/OK to confirm.
4. Press SWITCH to begin. The controller sequences outputs and shuts off automatically when the countdown reaches zero.

**Best used when:** You want scheduled, automatic charging with a defined end time — for example, charge for 180 minutes after school, then power down overnight to avoid overcharging and reduce energy consumption.

## Mode 3: Cycle Mode (Rotating Charge)

**Overview:** Powers one outlet group at a time, rotating through all groups for the set cycle duration. Only one group of outlets is active at any moment — the remaining groups are off. After the last group completes its cycle, the sequence loops back to Group 1. This significantly reduces peak current draw.

**Setup steps:**

1. Apply mains power, turn on, then press SWITCH to enter standby.
2. Select Cycle Mode.
3. Set the cycle duration (in minutes) using Min×100, Min×10, and Min×1, then press ENTER/OK to confirm.
4. Press SWITCH to start. Outlet groups energise in sequence for the set duration per group, then the cycle repeats.

**Best used when:** Your site has limited circuit capacity, or you are charging a large number of high-wattage devices (e.g. 15–17" laptops with large AC adaptors). Cycle Mode charges devices in rotating waves, keeping peak current well within safe limits.

## 5. Care & Maintenance

Regular maintenance ensures the safe and reliable operation of your charging trolley and the chargers stored within it.

### 5.1 Trolley

- Clean the exterior with a dry or lightly damp cloth only. Do not use solvents or abrasive cleaners.
- Keep ventilation slots free of dust and debris. Use compressed air to clear blockages if needed.
- Check that all door locks are functioning correctly and that keys are stored securely.
- Periodically inspect wheel brakes to ensure they engage and release correctly.
- Do not store liquids inside or on top of the trolley.

### 5.2 Chargers & Cables

- Inspect all charger cables and adaptors regularly for signs of wear, fraying, kinking, or damage.
- Remove and replace any damaged charger or cable immediately — do not continue to use it.
- Ensure charger plugs are fully seated in their assigned AC outlet and have not worked loose over time.
- Periodically re-check cable routing through slot dividers to confirm cables are not being pinched or strained.
- Use only manufacturer-supplied or certified replacement chargers. Do not substitute uncertified alternatives.

## 6. Troubleshooting

| Symptom                             | Recommended Action                                                                                                                                                                 |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device not charging                 | Check the charger is fully plugged into its AC outlet. Confirm the cable is properly connected to the device. Verify the selected mode is active and power is on.                  |
| Trolley not powering on             | Verify the wall outlet is live. Ensure the power switch is in the ON position and the mains plug is firmly seated.                                                                 |
| One outlet not working              | Check the charger plugged into that outlet is not damaged. Try the charger in a different outlet to isolate the fault. If the outlet itself is faulty, contact SchoolTech support. |
| Cable not reaching device in slot   | Recheck the cable routing through the slot divider. Use a slightly longer replacement cable if required — ensure it is a certified cable for that device.                          |
| Cable pinched or damaged at divider | Reroute the cable through the correct opening in the divider. Replace the cable if any damage is visible.                                                                          |
| Devices not charging in Cycle Mode  | Confirm Cycle Mode is selected and active. Check the cycle duration is appropriate — too short a cycle may not fully charge high-capacity devices.                                 |

Door lock not engaging

Check for obstruction. Ensure the door is fully closed before inserting the key.

## 7. Regulatory & Compliance Information

---

This product is designed and manufactured to comply with Australian electrical safety standards.

- RCM (Regulatory Compliance Mark) certified to Australian electrical standards.
- Power input: 200–240 V~, 50/60 Hz, 10 A.
- This appliance must be earthed. Ensure connection to a properly earthed mains socket.
- Third-party chargers and adaptors installed in this unit must themselves be appropriately certified for use in Australia.
- Disposal: Do not dispose of this product in general household waste. Contact your local authority for information on electronic waste recycling.