

SchoolTech

20 USB-C Charging Trolley

Instruction Manual — Up to 15.6" Devices

Specification	Details
Device Capacity	Up to 20 USB-C devices (laptops, Chromebooks, iPads up to 15.6")
USB-C Cable Type	Pre-installed USB-C to USB-C cables — 65 W each
Charging Modes	Always On Timer Mode Cycle Mode
Power Input	200–240 V~, 50/60 Hz, 10 A (supports full 20-device charging in Always On mode)
Charging Output	Per port: 5 V⊕3 A (15 W) 9 V⊕3 A (27 W) 12 V⊕3 A (36 W) 15 V⊕3 A (45 W) 20 V⊕3.25 A (65 W)
Power System	Intelligent Smart Power Management with programmable timer
Plug Type	1.5 m Australian 10 A plug with earth pin
Cable Management	Neatly routed and secured in each bay
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 × 93 cm H 55 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 the power cord, and never unplug by pulling the cord.
- Do not use a coiled or tightly bound cord connected to the power supply.
- Keep the cord and device 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 device immediately.
- Do not use a damaged cable — this may cause fire or electric shock.
- Do not unplug with wet hands — this may cause electric shock.
- Unplug the power cord if the product will not be used for an extended period to prevent heat buildup, fire, or electric shock.
- Ensure the product 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 Physical Safety

CAUTION — Safe Handling

- Move the cart 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 cart.
- Do not roll the cart over the power cord.
- 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.

1.3 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 external devices.
- Do not use an extension cord with this unit.

1.4 Device Compatibility

Please ensure the compatibility of this product with your device (e.g., laptop, Chromebook, iPad, or tablet) as specified in the device's own user manual. Not all USB-C devices support the same charging profiles. Refer to your device documentation to confirm USB-C Power Delivery compatibility.

2. Device Sizing & Slot Specifications

Each trolley bay is precision-engineered to securely store laptops, Chromebooks, and tablets. Before inserting devices, verify your device dimensions against the specifications below.

Feature	Specification
Total Device Capacity	20 devices
Maximum Screen Size	Up to 15.6" laptops, Chromebooks, or tablets
Internal Slot Width	35 mm per slot
Slot Depth	410 mm
Slot Height	275 mm
Recommended Max Device Width	≤ 33 mm
Recommended Max Device Depth	≤ 405 mm
Recommended Max Device Height	≤ 270 mm
Device Bays	2 drawers — 10 devices per drawer
Drawer Style	Heavy-duty shelves with integrated cable routing
Cable Type	1.2 m pre-wired USB-C cables (one per slot)

TIP — Check Before Inserting

- Always measure your device before placing it in a slot. Forcing oversized devices may damage the device or the cable connectors.
- Devices should sit flat and upright within their designated slot.
- Ensure the USB-C cable reaches the port comfortably without strain.

3. Smart Power Controller

The trolley is equipped with an intelligent power controller that supports three operating modes: Always On, Timer Mode, and Cycle Mode. These modes are designed to optimise charging loads, protect circuits, and simplify after-hours energy management.

Mode 1: Always On (Default)

Overview: Delivers continuous power to all timed outlet groups. Power-up is sequenced to avoid inrush current.

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. The four timed 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, such as during quick turnarounds or when overall current draw is low.

Mode 2: Timer Mode

Overview: Runs for a user-defined duration (in minutes) then switches off automatically. Outlet groups are brought online in 1-second sequence during start-up.

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.

Mode 3: Cycle Mode (Rotating Charge)

Overview: Powers one outlet group at a time, rotating through all groups for the set cycle duration. After Group 2 finishes, the sequence loops back to Group 1. Only one group is active at any moment — the other is off. This reduces total current draw and avoids circuit overloads.

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. Groups 1 → 2 energise in turn for the set duration per group, then the cycle repeats.

Best used when: You have a large number of devices to charge or constrained circuit capacity. Cycle Mode minimises peak current draw by charging approximately 10 devices at a time in rotating waves.

4. Care & Maintenance

Proper maintenance ensures the longevity and safe operation of your charging trolley.

- Clean the exterior with a dry or lightly damp cloth only. Do not use solvents or abrasive cleaners.
- Inspect all USB-C cables regularly for signs of wear, fraying, or damage. Replace any damaged cables before use.
- Keep ventilation slots free of dust and debris. Use compressed air to clear blockages if needed.
- Check that 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. Troubleshooting

Symptom	Recommended Action
Device not charging	Check that the USB-C cable is fully inserted into both the port and the device. Confirm the 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 plug is firmly seated.
Cable appears damaged	Do not use the affected slot until the cable has been replaced by qualified personnel.
Devices not charging in cycle	Confirm the correct group assignment. Check the cycle duration is set appropriately for your device count.
Door lock not engaging	Check for obstruction. Ensure the door is fully closed before inserting the key.

6. 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.
- Disposal: Do not dispose of this product in general household waste. Contact your local authority for information on electronic waste recycling.