

Intelligent Charging System

User Manual | PB-80C24

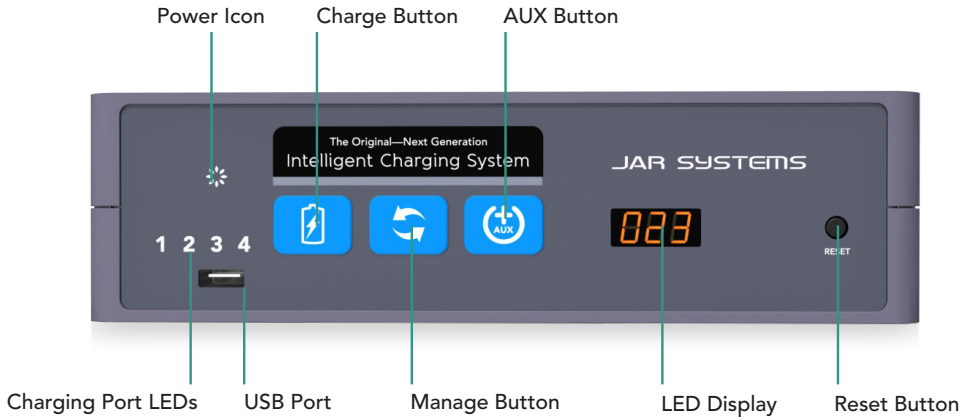


JAR SYSTEMS

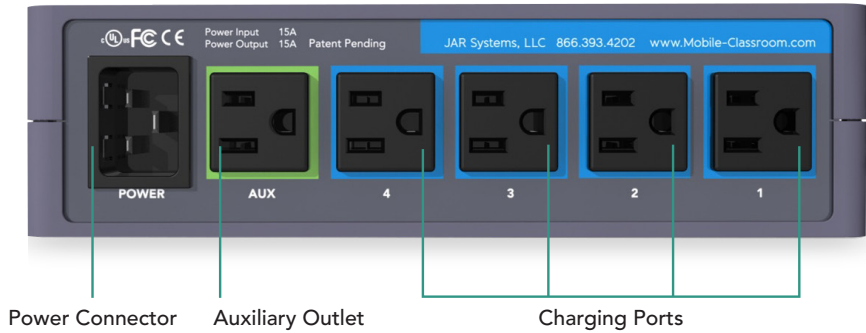


Display Tour

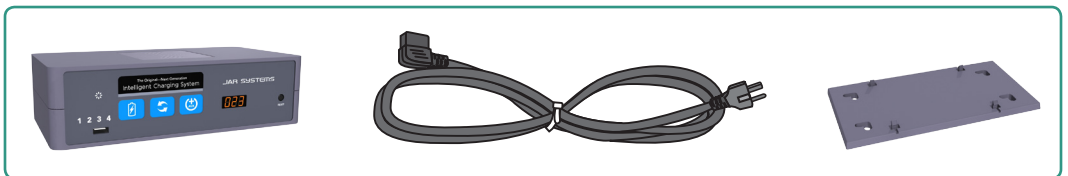
Front



Back



Included



Quick Start Guide

To Begin Charging:



- Connect to Power
- Select Charging Mode...



CHARGE MODE

Best used if all devices are powered off and connected at the same time. Power is discontinued when batteries reach full charge to conserve energy.

OR



MANAGE MODE

Best used if all or some devices are left on or are returned at different times. Charging continues until it is manually stopped.



NOTE: The charging system should always be in MANAGE mode in order to charge iPads and devices that remain in sleep mode.

Basic Functions



Charge Button

Pressing the CHARGE button will start charge mode. This is best used when all devices are powered down and returned to the cart at the same time. Charging will automatically stop when all batteries are 100% charged. You can also stop charging at any time by pressing the CHARGE button a second time.



Manage Button

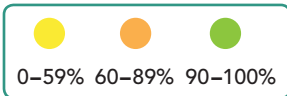
Pressing MANAGE button will start manage mode and turn on the auxiliary power. This mode will continuously monitor and distribute power until manually stopped. This mode is best used if some of the devices may be left on when connected or if devices are connected at different times. Press the button again to stop manage mode.



Auxiliary Power Button

Controls power to any peripherals that are plugged into the AUX power strip in the back of the cart. If the AUX devices must be operational during charging then the system must be in manage mode. Be aware that this may lengthen charging time.

1 2 3 4



Charging Port LEDs

Indicates which sections of the cart are active. The charging unit controls this automatically, ensuring that all devices inside are charged in the fastest, most efficient way possible. When all four quadrant LEDs are solid green, charging is complete.



Power Icon

Indicates when the cart is connected to power and is ready.



RESET

Reset Button

The Intelligent Charging System is protected with its own circuit breaker. **If it encounters misuse such as plugging in unsupported devices or if there is a power surge, the circuit will trip and the reset button will pop out.** To reset the cart simply press it back in. Please first ensure that everything is plugged in properly and that only supported devices are connected before resetting.

Setting an Automatic Start Up Mode

Automatic Manage Mode

The Intelligent Charging System can be set to automatically start up in manage mode when the system is plugged in. In manage mode the devices will be charged automatically as they are connected to the charging system without having to press the charge button.

How to Set Automatic Manage Mode

First, enter the configuration mode:

The AUX button must be held down for at least four seconds. This must be done immediately after power-up. To indicate we are in configuration mode, a beep will be heard (**A**), the power icon will change from solid blue to flashing orange. The LED display will also display the current version number of the firmware.

While in this mode the default power mode can be changed.

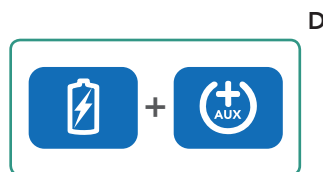
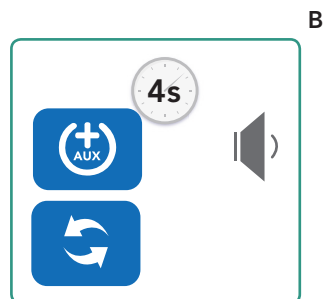
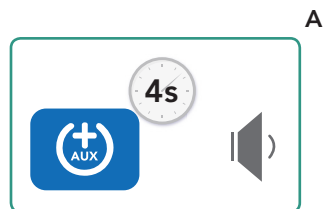
To do so, press and hold the AUX button again until the beep is heard, while still holding the AUX button, press and release the manage button (**B**). The power icon will now flash very fast and the LED display will show the current configuration mode. The display will show one of the following:

1. **oFF** This indicates the auto power-up modes are off.
2. **AC** This indicates that the auto charge is enabled on power-up
3. **A6** This indicates that the auto manage is enabled on power-up

Now each time the manage button is pressed, the display will cycle through the three settings. Once the desired mode is reached, press and hold the charge button until the beep is heard (**C**). The power icon will now be flashing at the original slow rate and the LED display will show **CF6**. This indicates the system has returned to the main configuration state and the power-up configuration has been saved.

To exit the configuration mode:

Press and hold both the AUX and charge buttons (**D**). The unit will now return to normal operation. The power icon will return to a solid blue.



Installation

Integrating With a Cart

The Intelligent Charging System can be integrated with nearly any cart that meets the following conditions. The power strips in the cart (up to four) must be able to be disconnected from the timer/switch that is currently in the cart so that they can be diverted to connect directly with the Intelligent Charging System. An existing auxiliary power strip may also be connected to the appropriately labeled outlet on the Intelligent Charging System or an extra power strip may be added for this purpose.



Always install the Intelligent Charging System in a ventilated space.



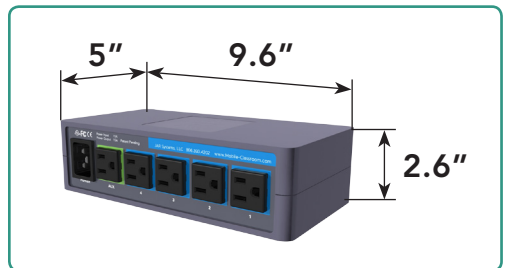
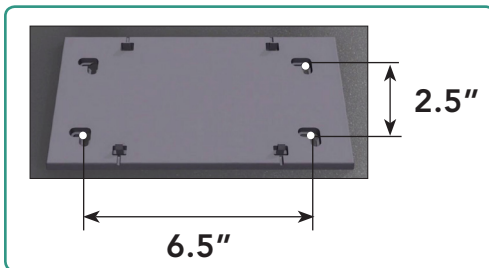
Mounted Inside of the Cart



Mounted on Top of the Cart

Installation Specifications

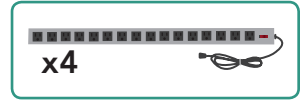
Installation procedures for the Intelligent Charging System vary depending on the environment it is being used in. **For help or ideas for installation, contact JAR Systems directly.** To utilize the included mounting bracket you will need four #6 (.1380) pan head self-drilling tapping screws type CSD, cross-recess. The length required must be determined by the surface that it is to be secured to. Be sure to leave enough space for the cables to extend from the back (at least 3.5").



Wiring Setup

Capacity

The Intelligent Charging System accommodates up to four power strips with up to 16 outlets on each **(E)** as well as one auxiliary power strip for peripheral devices. The charging outlets on the back of the unit are labeled 1–4 corresponding to the numbered LED indicators on the front of the unit. This allows the user to view the charging status of each power strip.



E

To wire devices for charging:

1. Plug in one or more power strips into the charging outlets in the back of the unit **(F)**.
2. Plug the devices' manufacturer-supplied charging adapters into the power strip(s).
3. Plug the charging system's main power cable into the power connector in the back of the unit. Connect to the wall outlet when ready to begin charging.



F



Disconnect from power before connecting or disconnecting any cables.

Using the System with a Network Switch

A network switch can be used with the Intelligent Charging System by connecting it to the auxiliary outlet. Pressing the MANAGE button once prepares all connected devices for remote management. The system will keep the devices charged when they are turned on for management via Wake-on-LAN. If the devices are not fully charged, wait 2–3 hours before starting remote management. Press the MANAGE button a second time to stop manage mode and discontinue power to the auxiliary outlet.

For help with integrating the Intelligent Charging System:

Call 866.393.4202 or E-mail Sales.Support@JAR-Systems.com

Warranty

This product comes with a five-year warranty that covers any defects in material or workmanship and extends to the original consumer of the product only. JAR Systems LLC will replace the product with a new or refurbished product, repair the product, send replacement parts, or refund the purchase price of the product, at JAR Systems LLC's discretion. This warranty does not cover accidental damage, unreasonable use, neglect, tampering or other causes not arising from defects in material or workmanship.

Any implied warranties last only as long as the warranty periods listed above except where state law does not allow limitations on how long an implied warranty lasts. This includes but is not limited to the implied warranties or merchantability and fitness. JAR Systems LLC's responsibility is limited to the actions listed above and nothing else.

This warranty does not cover, and JAR Systems, LLC will not be responsible for, any damages due to loss of use of the product, or any other costs or expenses incurred by you or anyone else who uses the product, whether due to defects, breach of contract, negligence, strict liability or otherwise. JAR Systems is not liable for any indirect, special, incidental or consequential damages related to the product or this warranty. Some states do not allow exclusions or limitations on consequential or incidental damages, so these limitations or exclusions may not apply.

This warranty gives you specific legal rights and you may also have other rights that vary from state to state. This warranty is governed by the laws of Florida, excluding its conflict of laws principles, unless your state requires that its law be used.

Maintenance and Warnings

- To clean and disinfect the Intelligent Charging System wipe the surface with a non-abrasive cloth and rubbing alcohol.
- Keep away from moisture. Do not place any objects filled with liquids near the charging system. As with any electronic system, take care not to spill liquids into the unit.
- Do not attempt to dismantle or open.
- Do not operate in extreme temperatures.
- Wiring and installation of the unit should be done only by an adult.
- Do not plug unsupported items into the charging system.
- Do not attempt to make modifications to the system. Doing so will void any warranties.
- Do not obstruct any ventilation openings.

Visit [JAR-Systems.com/Support](https://www.jar-systems.com/Support) for instructional videos and more.