

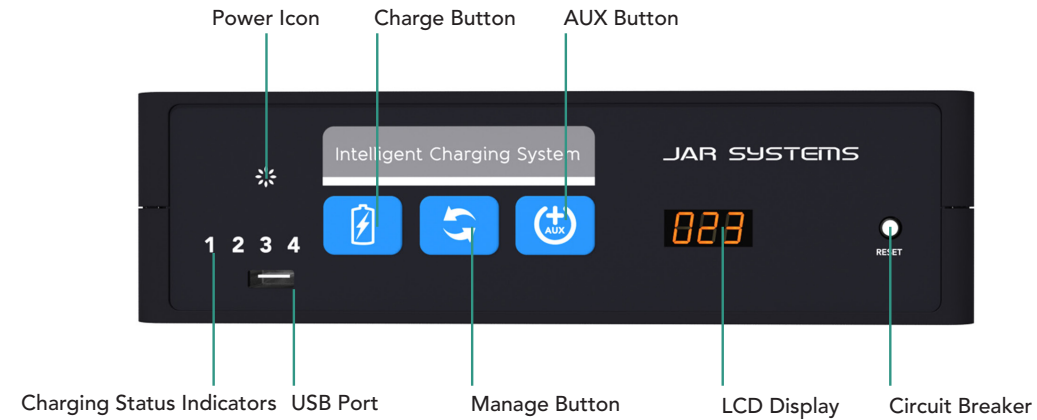
Intelligent Charging System

User Manual | PB-80C24H
Firmware | A 1.5

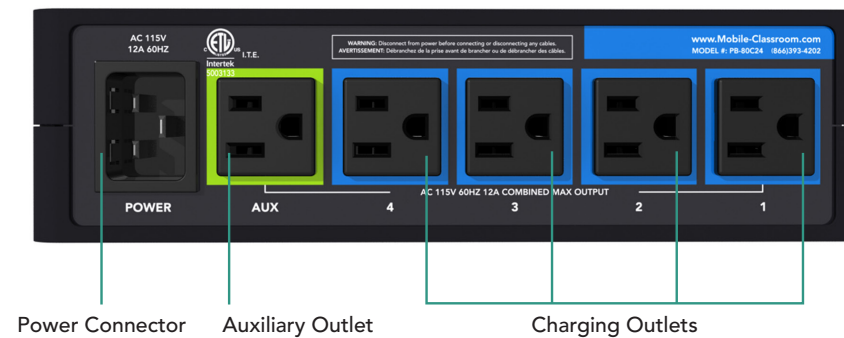
Introduction

The Intelligent Charging System uses power sensors and charging logic to deliver the fastest, most efficient possible charge. The system automatically evaluates the power draw from each charging outlet, directing power to the areas with the most demand first and charging as many devices simultaneously as possible from a single 15A outlet.

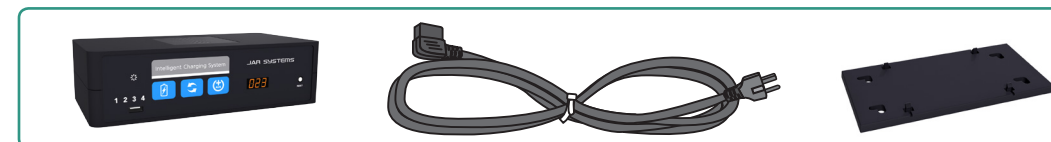
Front



Back



Included



Quick Start Guide

To Begin Charging:



- Connect to Power
(AC 115V 60Hz)
- Select Charging Mode...



CHARGE MODE

OR

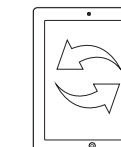


MANAGE MODE

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.

Best used if some of the devices are left on or are returned to the cart at different times. Charging continues until it is manually stopped by pressing manage again.

NOTE: if this mode is used frequently there is a locked manage mode to keep the unit in that mode for charging.



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 Mode

Pressing the CHARGE button will start charge mode. 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. This is best used when all devices are powered down and returned to the cart at the same time.



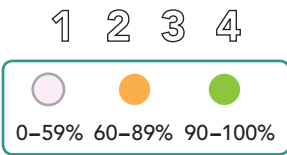
Manage Mode

Pressing the 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 manage button again to stop manage mode.



Auxiliary Power

Controls power to any peripherals that are connected to the AUX power outlet in the back of the charger. 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.



Charging Status LED Indicators

Corresponds to the four charging outlets and indicates which sections are active. The system controls this automatically. **As few as one and as many as all four sections may be active at once.** When all four LEDs are solid green, charging is complete.



Power Icon

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



RESET

Internal Circuit Breaker

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 breaker will trip and the reset button will pop out.** To reset the system, simply press it back in. Please ensure that everything is plugged in properly and that only supported devices are connected before resetting.

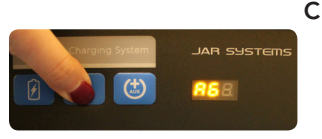
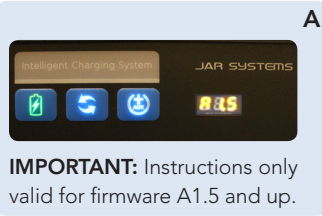
Advanced Settings

Locked Manage Mode

For environments where the system is consistently being used in manage mode, it can be conveniently configured to automatically start manage mode every time it is plugged in. In manage mode, the system continuously monitors and distributes power until it is manually stopped. Devices can be connected or disconnected at any point in the process without having to restart the charging cycle. If devices are powered on or “sleeping” when connected, the system will charge the devices and then maintain them at full charge. **When configured for “Locked Manage”, the buttons on the front panel will no longer be functional, but will make a click sound, until the mode is turned off.**

How to Set Locked Manage Mode

1. Connect the Intelligent Charging System to a power source. As it turns on, the system will beep, light up, and display the firmware version for 2.5 seconds **(A)**.
2. Press and hold the MANAGE button within the first 10 seconds of power up **(B)** for 4 seconds until the system chirps. The LCD display will show **A6**, meaning the locked manage mode has been enabled successfully **(C)**.
3. Unplug the system from its power source and then plug it back in. The system will now automatically start in manage mode.



How to Turn Off Locked Manage Mode

1. Connect the Intelligent Charging System to a power source.
2. Press and HOLD the CHARGE button for TEN seconds, a confirming beep will be heard.
3. Press the MANAGE button within the next 3 seconds to disable the “Locked Manage” mode.

When done a confirming sound will be heard along with the display briefly showing the message OFF **(D)**.

Installation (For Stand-Alone Charging System Only)

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.

WARNING: Always install the Intelligent Charging System in a ventilated space.



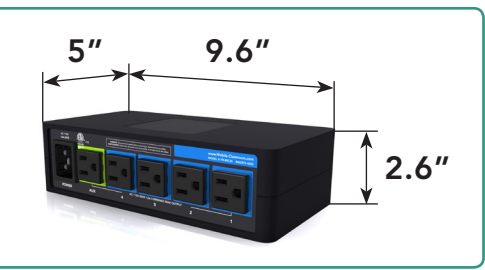
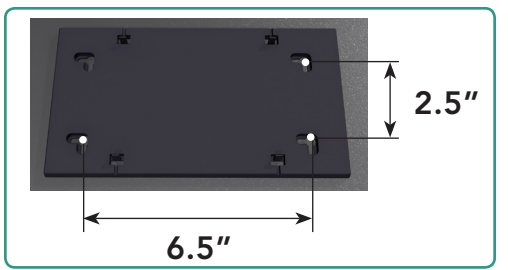
Mounted Inside of the Cart



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, it is recommended to use four #6 (.1380) self-drilling, tapping, type CSD, cross-recessed pan head screws. 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”).

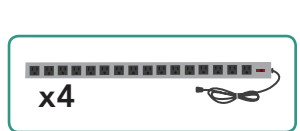


Installation (For Stand-Alone Charging System Only — Continued)

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.



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.



WARNING: 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.



The Intelligent Charging System has been independently tested and certified for product safety.

For help with integrating the Intelligent Charging System:

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



Intertek
5003133

Visit JAR-Systems.com/Support for instructional videos and more.