

Intelligent Charging System

User Manual | PB-80C24



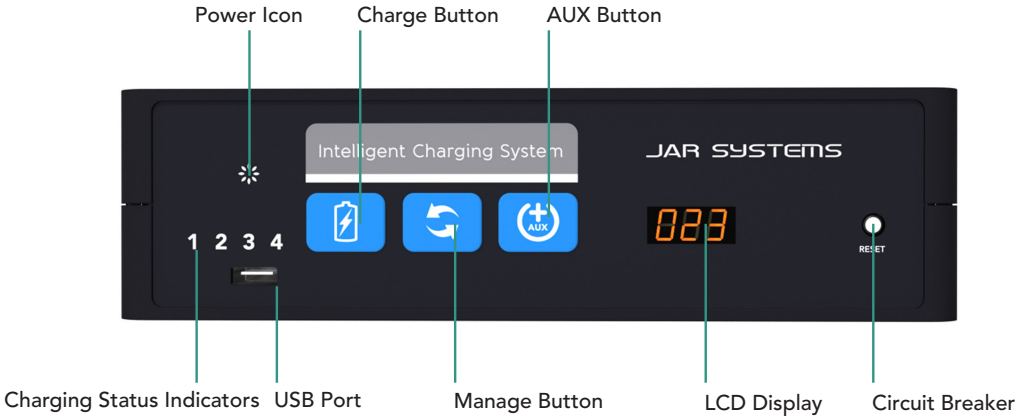
JAR SYSTEMS



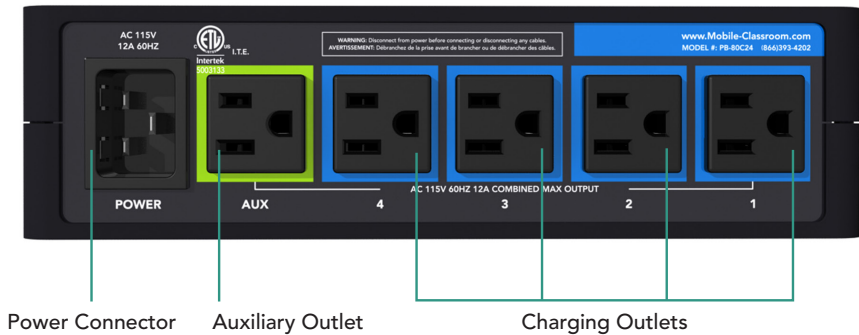
Introduction

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.

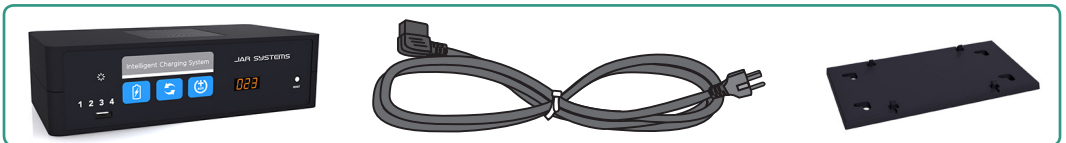
Front



Back



Included



Quick Start Guide

To Begin Charging:



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



CHARGE MODE

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 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.



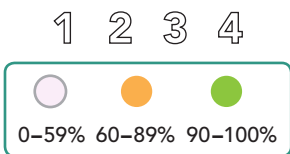
Manage Mode

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

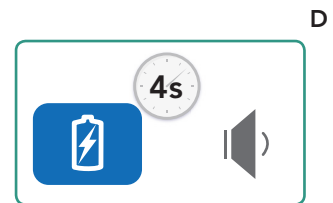
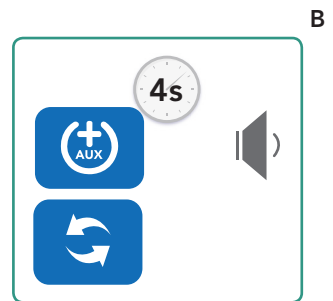
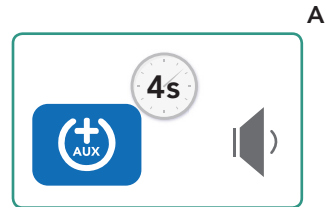
Automatic Manage Mode

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.

How to Set Automatic Manage Mode

1. Immediately after power-up, press and hold the AUX button for four seconds until the system chirps **(A)**. The power icon will change from solid blue to flashing orange and the LCD display will show the current version of the firmware.
2. Press and hold the AUX button again and when the system chirps, continue to hold the button. While still holding the AUX button, press and release the manage button **(B)**. The power icon will now flash very fast and the LCD display will show one of the following:
 - OFF** This indicates the auto power-up modes are off.
 - AC** This indicates that the auto charge is enabled on power-up
 - A6** This indicates that the auto manage is enabled on power-up
3. Press and release the manage button until the display reads A6 **(C)**.
4. Press and hold the charge button until the chirp is heard **(D)**.
5. Unplug the system from the wall and then plug it back in. The system will now automatically start in manage mode.

First, the system will evaluate the power draw of all connected devices, then it will begin to distribute power as needed. There may be as few as one or as many as all four sections charging at first. If the connected devices' batteries are very drained, the system may charge one section first until the charge of the batteries is high enough to add additional devices. Eventually, all devices will be receiving power.



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, lint-free 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.
- Operating temperature range is between 41–95°F. Do not operate in extreme temperatures.
- Wiring and installation of the unit should be performed by adults only.
- Do not plug unsupported items into the charging system.
- Do not attempt to dismantle, open, or make modifications to the system. Doing so will void any warranties.
- Do not obstruct any ventilation openings.



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