

Ultra-Light Intelligent Service Plus Carts

User Manual | MD-51XX-SP



JAR SYSTEMS

Version B

For a copy of the most up-to-date user manual, please contact a JAR Systems representative or visit:

www.JAR-Systems.com/Support

Operating the Intelligent Charging System

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.

Quick Start Guide



- Step 1:** Connect to Power (AC 115V 60Hz)
- Step 2:** Select a charging mode: Charge Mode or Manage Mode...



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

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:

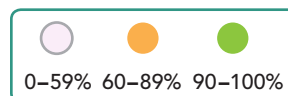
Pressing the MANAGE button will start manage mode and turn on the auxiliary power. This mode will continuously monitor and distribute power until manually stopped. This mode is best used if some of the devices may be left on when connected or if devices are connected at different times. Press the manage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

1 2 3 4



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.



RESET

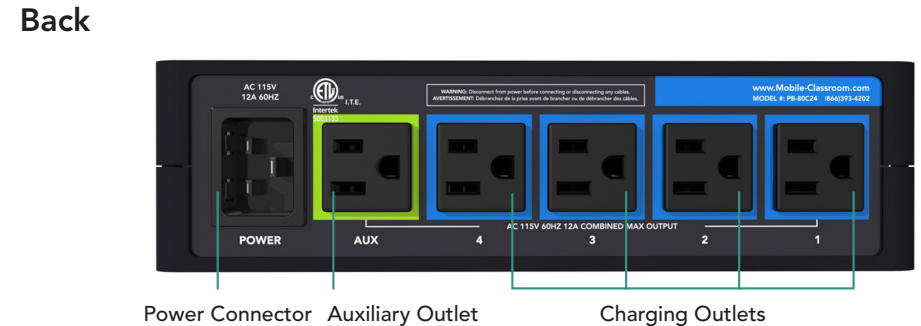
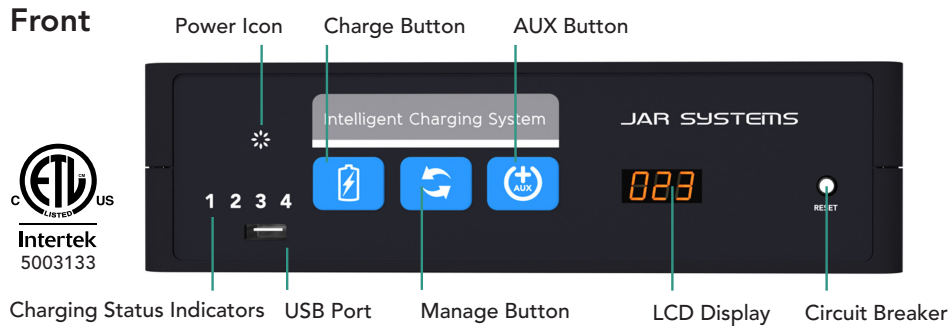
Internal Circuit Breaker:

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.



Power Icon:

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



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.

How to Set Up Automatic Manage Mode:

Step 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 one second **(A)**.

Step 2: Immediately press and hold the MANAGE button **(B)** for four seconds until the system chirps. The LCD display will show one of the following:

OFF This indicates the auto power-up modes are off.

A6 This indicates that auto manage mode has been enabled successfully **(C)**.

Step 3: Unplug the system from its power source and then plug it back in. The system will now automatically start in manage mode.

How Automatic Manage Mode Works:

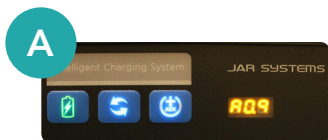
The system evaluates the power draw of all connected devices. It continuously monitors and distributes power until manually stopped. Devices can be connected or disconnected at any point in the process without having to restart the charging cycle. If devices are powered on or "sleeping" when connected, the system will charge the devices and then maintain them at full charge. There may be as few as one or as many as all four sections charging at once depending on the level of charge of the connected devices. The system will continue to add sections until all connected devices are receiving power.

How to Turn Off Automatic Manage Mode:

Step 1: Connect the Intelligent Charging System to a power source.

Step 2: As the system powers-up, press and hold the MANAGE button for four seconds until the system chirps. The LCD display will show the word **OFF** when it has been reprogrammed **(D)**.

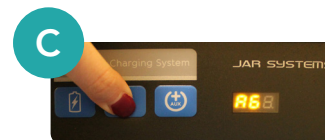
Step 3: Press the MANAGE button once to stop the charging cycle, then unplug the system. Automatic manage mode will be disabled next time the system is plugged in.



IMPORTANT: Instructions only valid for firmware A0.9 and up.



MANAGE button



Warranty

JAR Systems products come with a full warranty that covers any defects in material or workmanship and extends to the original consumer of the product only. Length of the warranty varies by product. 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. The 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 of merchantability and fitness. JAR Systems, LLC's responsibility is limited to the actions listed above and nothing else.

The 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.

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

Warranty extensions and/or upgrades are available and can be purchased with all products. If you wish to purchase an extension or upgrade for a product that has previously been deployed, or would like full information on this warranty please call JAR systems.

Call JAR Systems at 866.393.4202 for more information regarding your specific warranty.