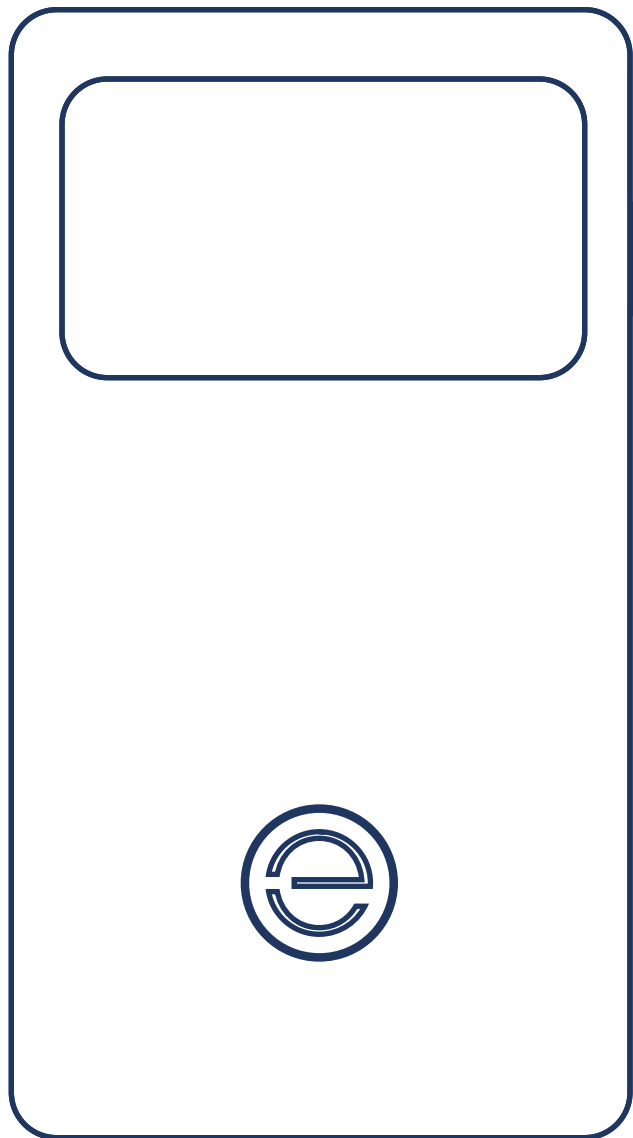


ergotron

MP100-B



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Specifications

Model: MP100-B

Battery capacity: 5000mAh/4S1P (14.6V/73Wh)

Input:

USB-C1/C2: 5V==3A, 9V==3A, 12V==3A, 15V==3A, 20V==3.25A (65W max)

Output:

USB-C1: 5V==3A, 9V==3A, 12V==3A, 15V==3A, 20V==5A (100W max)

USB-C2: 5V==3A, 9V==3A, 12V==3A, 15V==3A, 20V==5A (100W max)

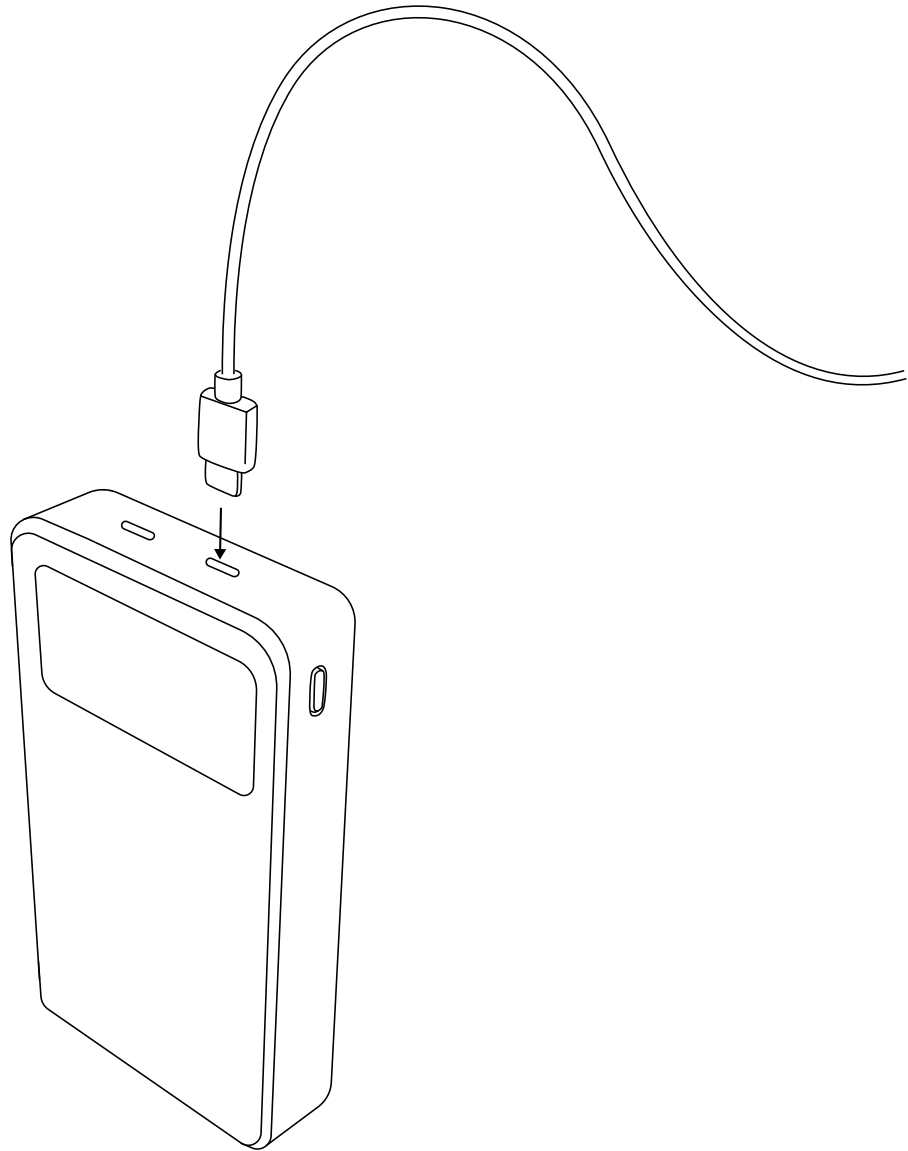
USB-C1 + USB-C2 Output: 5V==3A (15W) + 5V==3A (15W)

Total max (Pass-through): 5V==3A

Display: TFT display with real-time status updates

**Getting
Started**

Initial Setup



Plug a USB-C charger into the right-side USB-C port (C2) of the pack and let it charge for 10 seconds.

This prepares the pack's systems for normal operation.

(See *Charging* for charger recommendations)

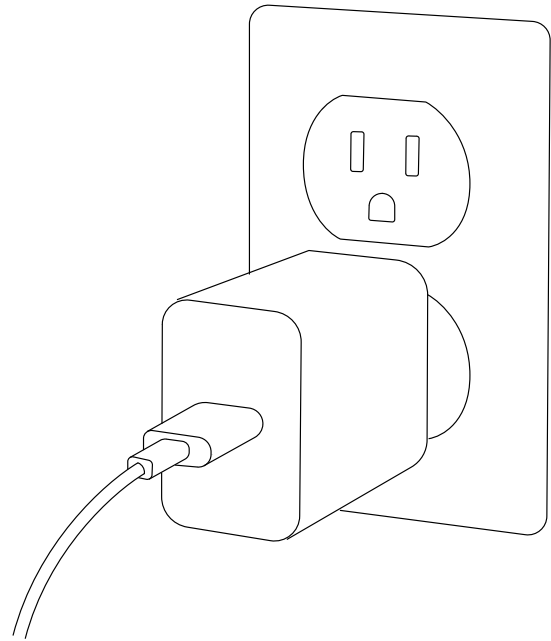
Charging

Ensure all devices are disconnected prior to connecting a charger.

Charge the battery pack through either of the USB-C ports (C1 or C2), both of which support input and output, by connecting the charging cable to a universal USB AC adapter*.

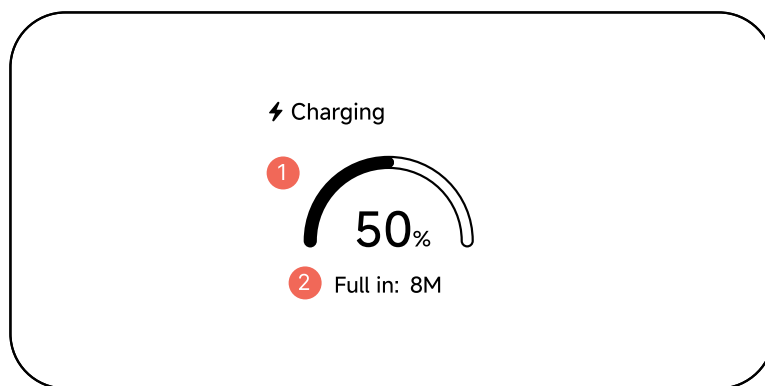
Rated Input:

USB-C 5V/3A



*Universal USB AC Adapter not included

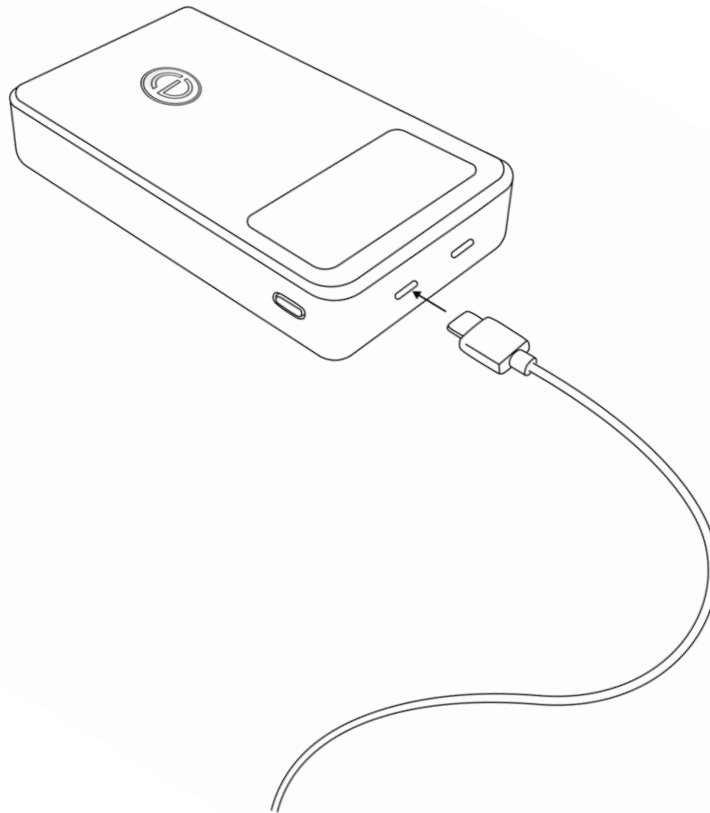
While charging, the display will read “Charging” along with the current charge (1) and estimated charge time (2).



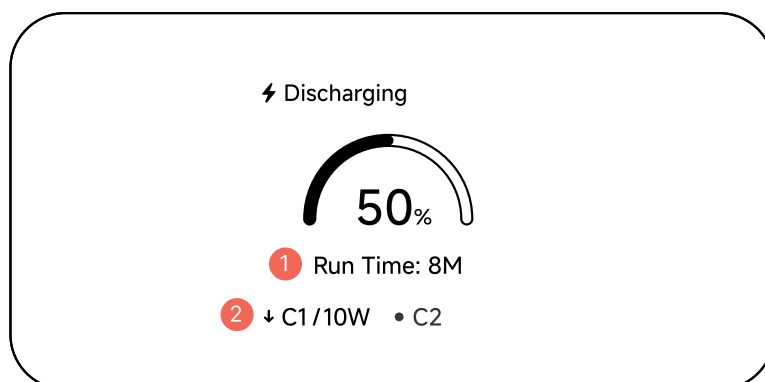
The pack may become warm during charging. If so, allow a 5-minute cool down period prior to connecting devices.

Powering a Device

Using a USB-C cable, plug device(s) into either USB-C port (C1 or C2). Power output may vary based on user activity and device compatibility.

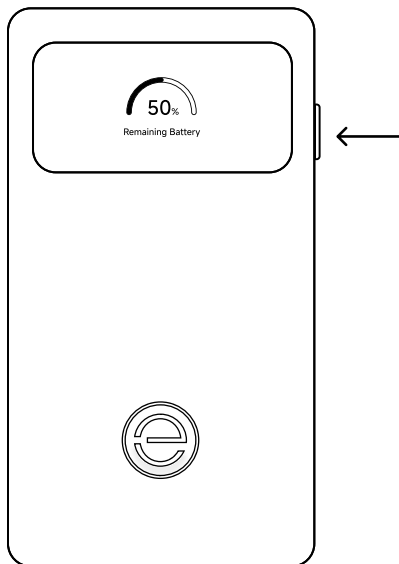


The screen will read “Discharging” along with an estimated run time (1) and discharge information (2) based on the wattage pulled by the connected device:



Reading Battery Pack Information

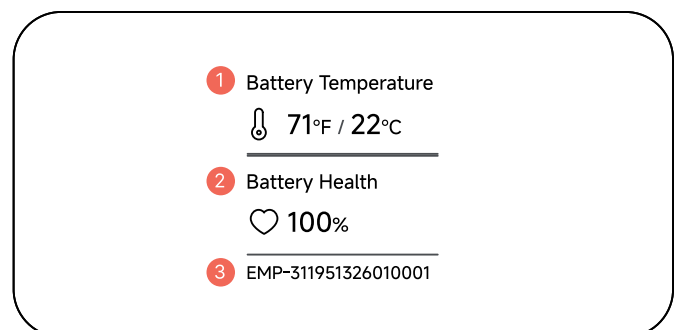
Press the side button at any time to switch between informational screens.



The Battery Status screen lists information used to monitor the battery pack:

1 Battery Temperature

The current temperature of the battery pack. Temperature may increase during charging or heavy use. If the battery exceeds safe limits, charging will pause automatically. Normal operating range: ~50–95°F (10–35°C).



2 Battery Health

The approximate health of the battery pack. Battery Health decreases gradually over time with normal use.

3 Serial Number

The serial number of the battery pack.

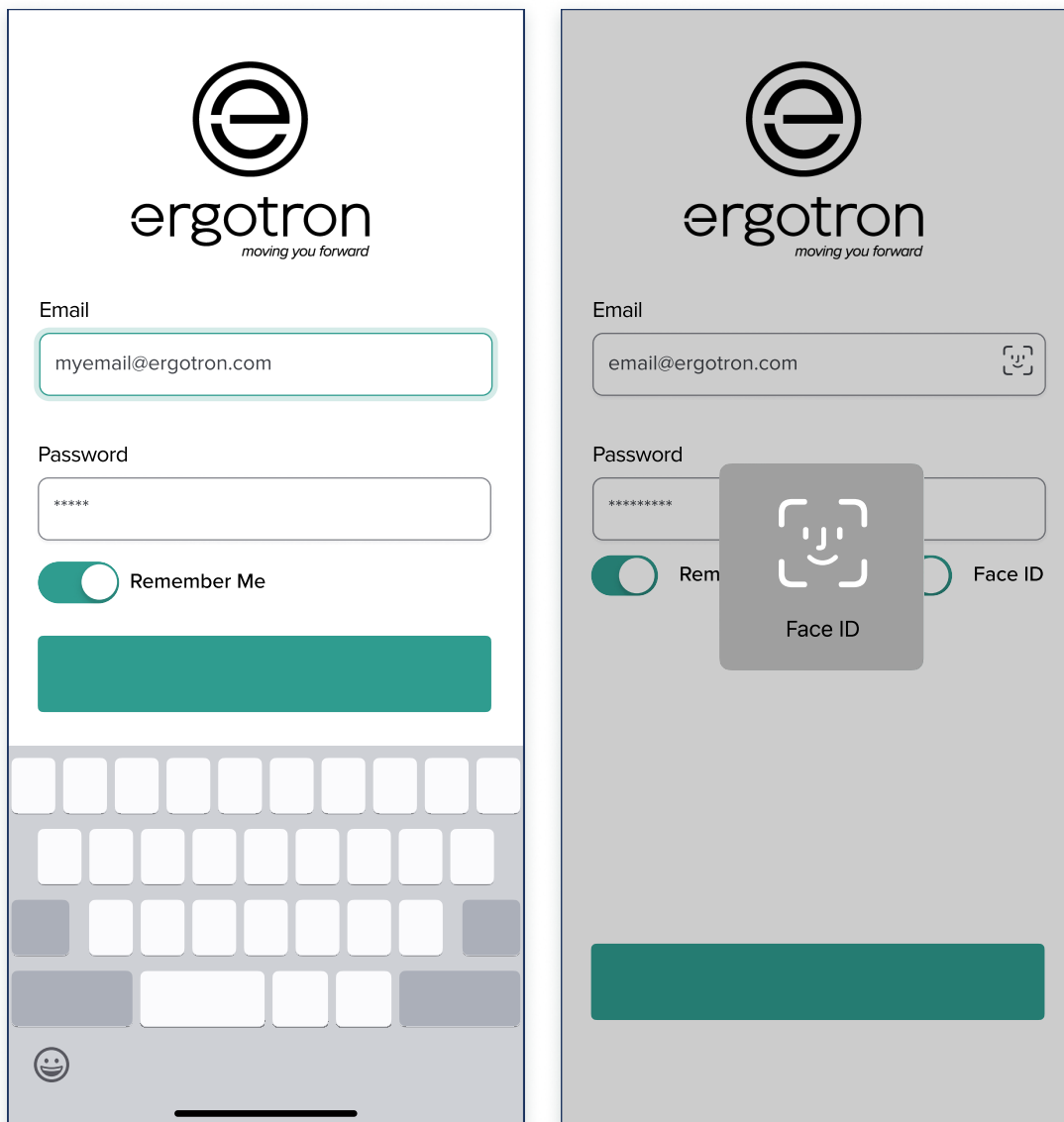
Configuring Your EMP Pack

iOS and Android Mobile Apps

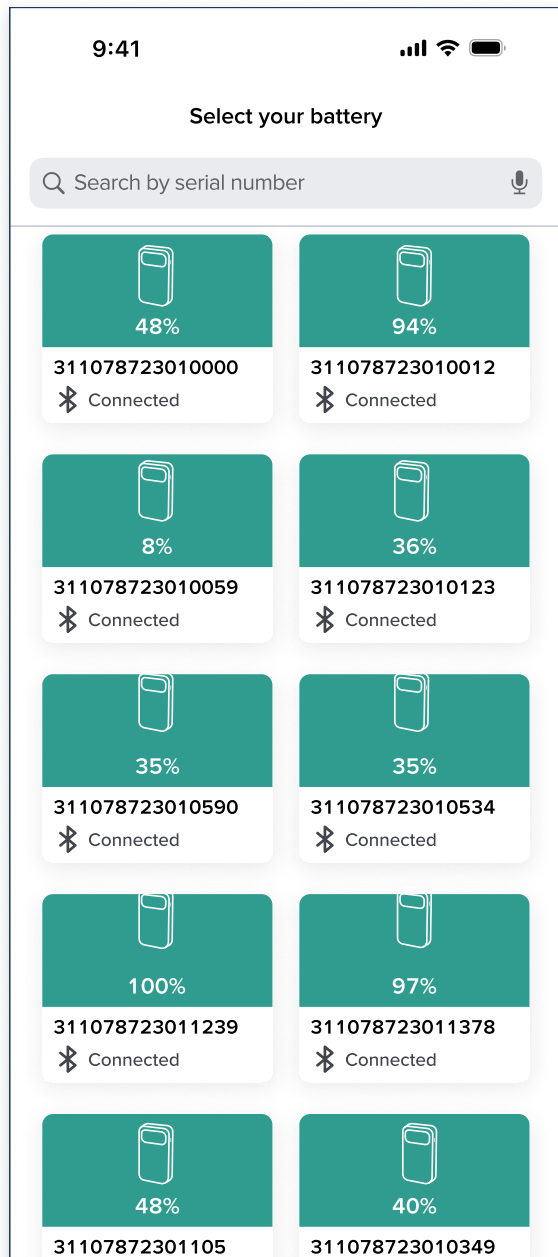
Users can download the **EMP Control** mobile app from the iOS App Store and Android App Store.

Follow the prompts to install the application on your device.

To open the app, press the icon on your home screen. The app will open to a login prompt. Login using your RhythmConnect username and password, then press login. If you do not have a RhythmConnect account, please contact the Software Success Team.



Connecting Devices



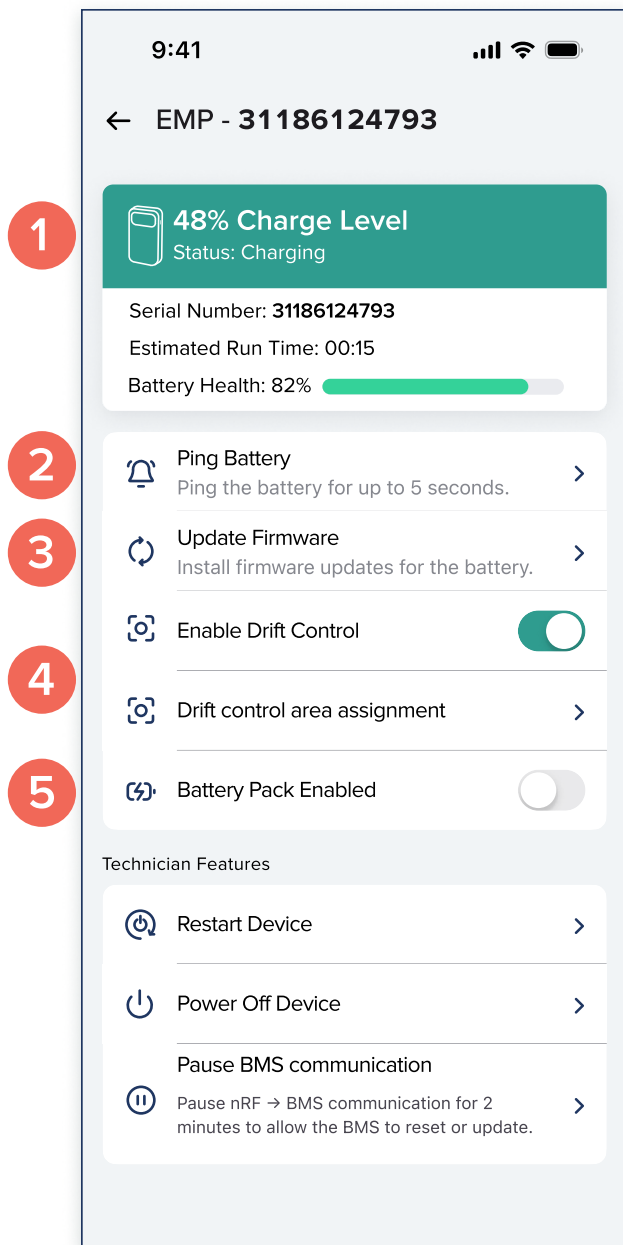
Upon logging in, the app will initiate a scan for nearby EMP Battery Packs via bluetooth BLE. Detected packs will automatically connect and display on the screen, listed by their serial numbers.

The percentage displayed indicates power level.

Search:

To search the list, click on the search bar and type in a serial number. Results will filter as you type.

Pack Information and Settings



1. Battery Status

Charge Level

- Displays the current battery percentage and whether the pack is charging.

Serial Number

- Unique identifier for the battery pack.

Estimated Run Time

- Approximate remaining operating time based on current charge.

Battery Health

- Indicates overall battery condition as a percentage.

2. Ping Battery

Plays an audible sound from the battery pack for up to 5 seconds. Use this feature to physically locate the battery pack when nearby.

3. Update Firmware

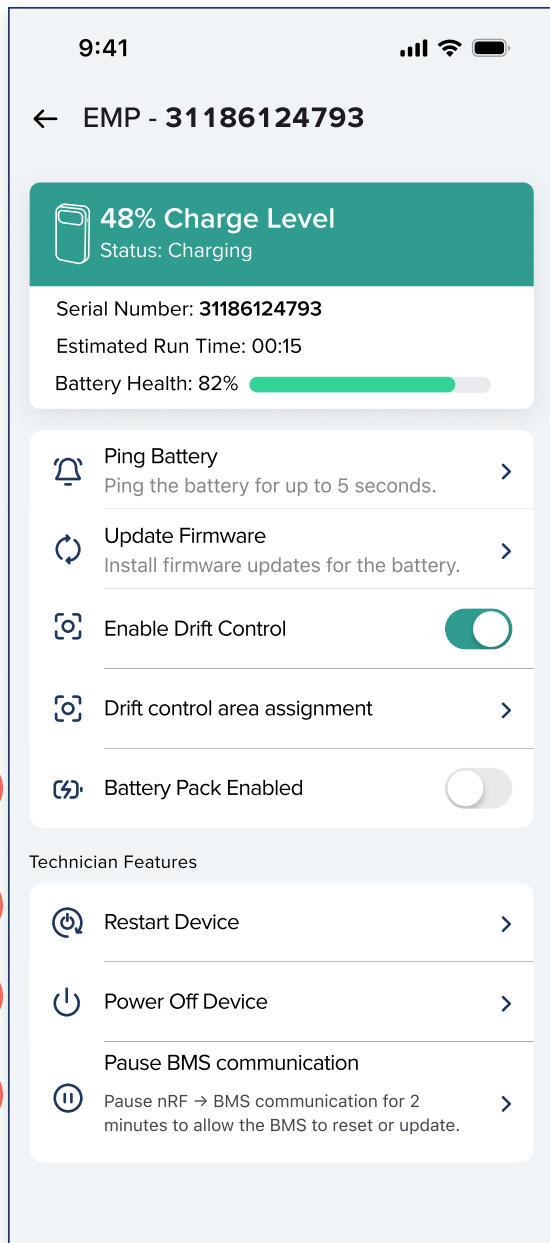
Installs the latest firmware version on the battery pack. Firmware updates may improve performance, stability, or add new features. Ensure the battery remains powered and connected during the update.

4. Drift Control Area Assignment

Allows you to define or change the permitted area for drift control. This is configured within the app and applies when Drift Control is enabled.

(continued on following page)

Pack Information and Settings cont'd



5. Battery Pack Enabled

Turns the battery pack's charging/output capability on or off.

- Enabled: The battery pack can charge and operate normally.
- Disabled: Charging and output are disabled (for example, if the pack is removed from an authorized area).

6. Restart Device

Restarts the battery pack without fully powering it down. Use this to resolve temporary communication or performance issues.

7. Power Off Device

Completely powers down the battery pack. Use this if the pack is removed from its location.

8. Pause BMS Communication

Temporarily pauses communication between the main controller (nRF) and the Battery Management System (BMS) for approximately 2 minutes.

This feature is used to:

- Allow the BMS to reset
- Support firmware updates or recovery
- Troubleshoot communication issues between the controller and the battery system

During this time, battery status updates may be unavailable.

Safety

WARNING: Improper use of this product may result in fire, electric shock, or personal injury.

- Do not puncture, crush, disassemble, or modify the battery pack. Damage may cause overheating, fire, or explosion.
- Keep the product away from water, fire, excessive heat, and impact.
- Do not insert foreign objects into any connectors or ports.
- Do not cover the device or place metal or flammable materials on or near it while charging.
- Disconnect the charger immediately if the product emits an unusual odor, becomes excessively hot, leaks, or shows signs of swelling.
- Physical damage or tampering may void the warranty and create safety hazards.

Handling and Use

- The battery pack may become warm during operation. Allow the device to cool before charging if it feels hot to the touch.
- When fully charged, the power pack will automatically enter standby mode to conserve energy.
- Fully charge the battery before first use to ensure optimal performance.
- Clean the exterior only with a soft cloth lightly moistened with isopropyl alcohol (up to 99%). Do not allow liquid to enter the device.

Storage and Temperature

- Store the product in a dry location between 14°F to 140°F (-10°C and 60°C).
- Operating temperature range is 32°F to 113°F (0°C to 45°C).
- Avoid leaving the product in direct sunlight or high-temperature environments, such as inside a vehicle on hot days.

Battery Performance

- Battery performance will gradually decrease over time with normal use. Typical battery lifespan is approximately two years, depending on usage and charging conditions.

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure Warning Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment can be used in portable exposure conditions.

IC Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux normes CNR exemptes de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est assujéti aux deux conditions suivantes :

- (1) Cet appareil ne doit pas causer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris celles qui peuvent entraîner un fonctionnement indésirable de l'appareil.

Warranty & Replacement

The EMP20 has a 2-year limited warranty covering defects in materials and workmanship under normal use. Damage from misuse or modification is not covered.

Use included prepaid recycle bag and return label for eco-friendly replacement at end of life.

For more information, contact your sales representative.