



Manuals.plus /

› Medistrom /

› Medistrom Pilot-24 Lite CPAP Battery Instruction Manual

Medistrom Pilot-24 lite 645759689818

Medistrom Pilot-24 Lite CPAP Battery Instruction Manual

Model: Pilot-24 Lite

Brand: Medistrom

1. PRODUCT OVERVIEW

The Medistrom Pilot-24 Lite is a compact and reliable 95Wh CPAP battery designed to provide portable power for your CPAP machine. It serves as both a standalone power source for travel and camping, and a backup power supply during outages. This bundle includes essential DC output cables for direct connection to ResMed AirMini, AirSense 10, and S9 CPAP machines.

Key features include its TSA-approved and FAA-compliant design, durable aluminum casing for heat dissipation, and LG industrial-grade cells for long-lasting power. It also features a built-in USB port for charging other electronic devices and an integrated LED flashlight.



Figure 1: Medistrom Pilot-24 Lite CPAP Battery.

PILOT-24 LITE FEATURES

The infographic features a central image of the Pilot-24 Lite device, a dark green rectangular case with 'MEDISTROM' printed on the back. The device is shown from a three-quarter perspective, with a smartphone screen visible inside. A glowing blue circular light effect surrounds the base of the device. Surrounding the central image are seven circular icons, each with a corresponding text label. The icons include: an airplane (TSA Approved), a battery with a lightning bolt (95Wh Battery), a hand holding a device (Portability & Compact), a feather (560g (1.3lbs)), a lightning bolt with a circular arrow (Quick Recharge (2-3hrs)), a USB symbol (USB Port (19000mAh) Meets All Your Power Need), and a person with a backpack (For Outdoor Adventures). Dimensions are indicated with white lines and text: 17cm (6.7") for length, 2cm (0.8") for thickness, and 9cm (3.5") for height.

TSA Approved

95Wh Battery

17cm (6.7")

2cm (0.8")

9cm (3.5")

560g (1.3lbs)

Portability & Compact

Quick Recharge (2-3hrs)

USB Port (19000mAh) Meets All Your Power Need

For Outdoor Adventures

Figure 2: Overview of Pilot-24 Lite features including size, weight, and battery capacity.

COMPATIBLE WITH AIRMINI



Cables Included

Short Charging Adapter

connected to AC

DC Output Cable

connected to CPAP

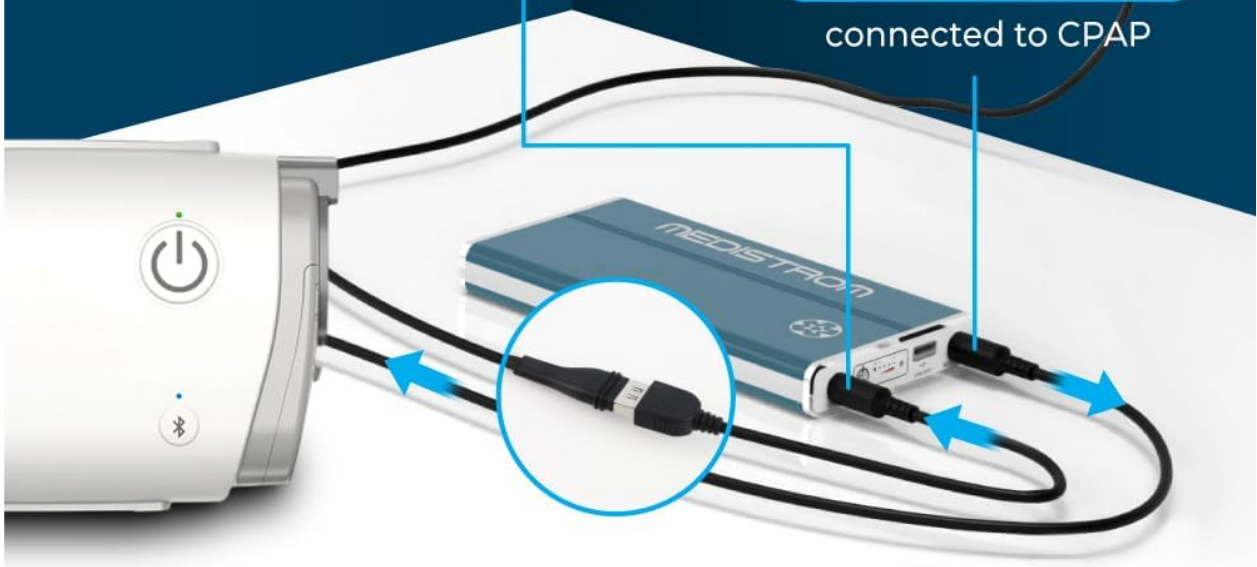


Figure 3: Contents included in the Pilot-24 Lite package, including the battery, product manual, and specific cables for AirMini, AirSense 10, and S9.

2. SETUP AND INITIAL CHARGE

Before first use, fully charge your Pilot-24 Lite battery. The battery can be charged using your CPAP machine's original AC power adapter. Connect the appropriate charging adapter cable to the battery's "CHARGE" port, then plug the adapter into a wall outlet.

The battery features a 4-stage charge level indicator. When charging, the lights will blink, indicating the current charge level. All four lights will be solid when fully charged.

COMPATIBLE WITH AIRSENSE 10



Cables Included

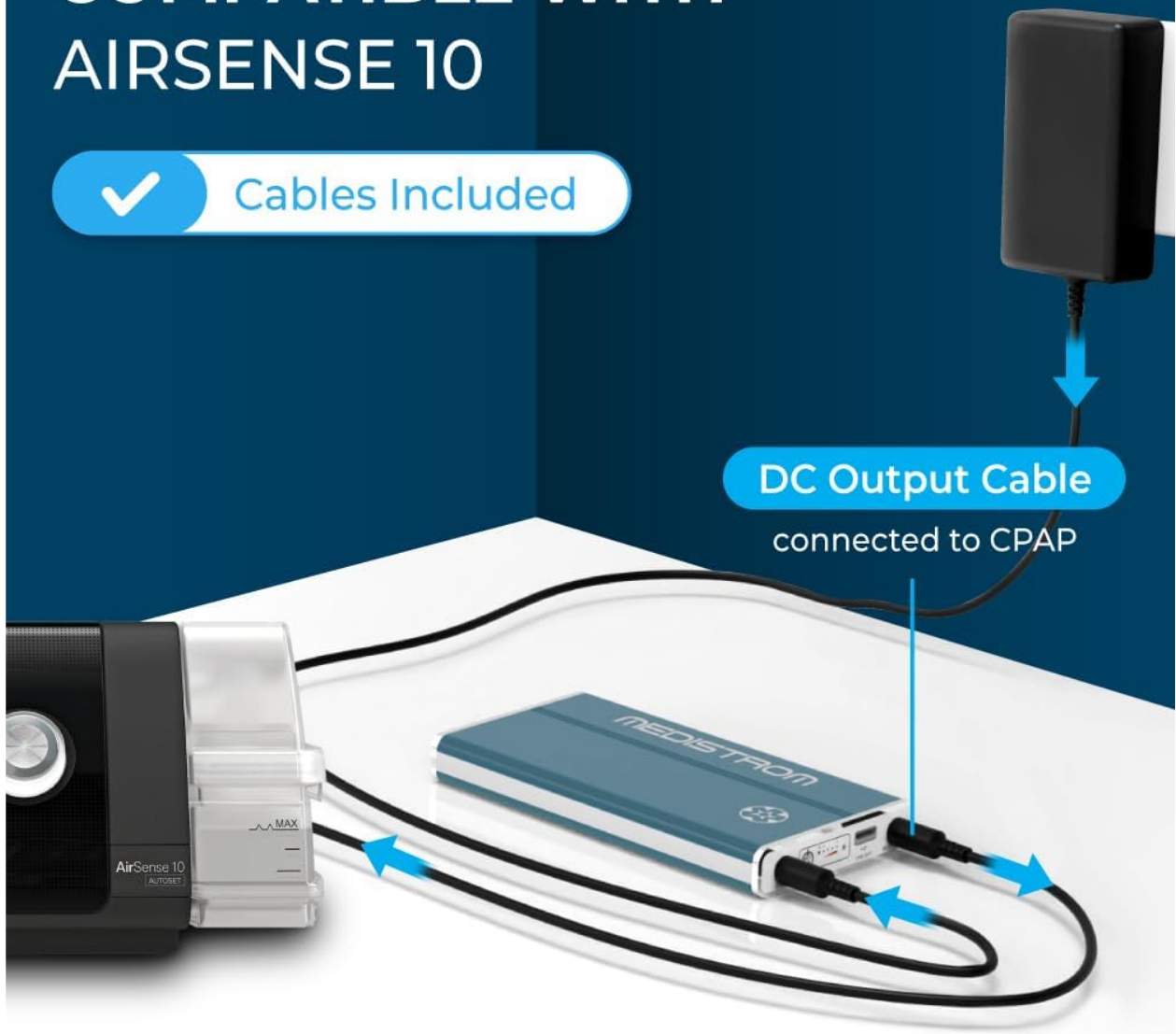


Figure 4: Connecting the Pilot-24 Lite to a ResMed AirMini CPAP machine for charging or operation.

COMPATIBLE WITH AIRMINI

✓ Cables Included



COMPATIBLE WITH AIRSENSE 10

✓ Cables Included



COMPATIBLE WITH S9

✓ Cables Included

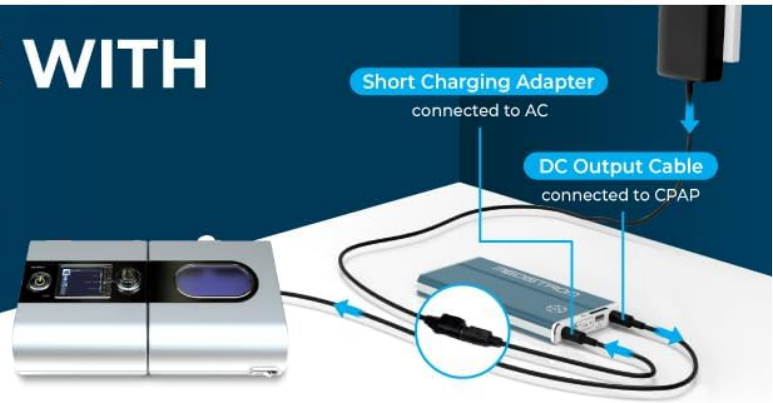



Figure 5: Connecting the Pilot-24 Lite to a ResMed AirSense 10 CPAP machine.

COMPATIBLE WITH 24V DEVICES



 Supported Devices – Cables Sold Separately

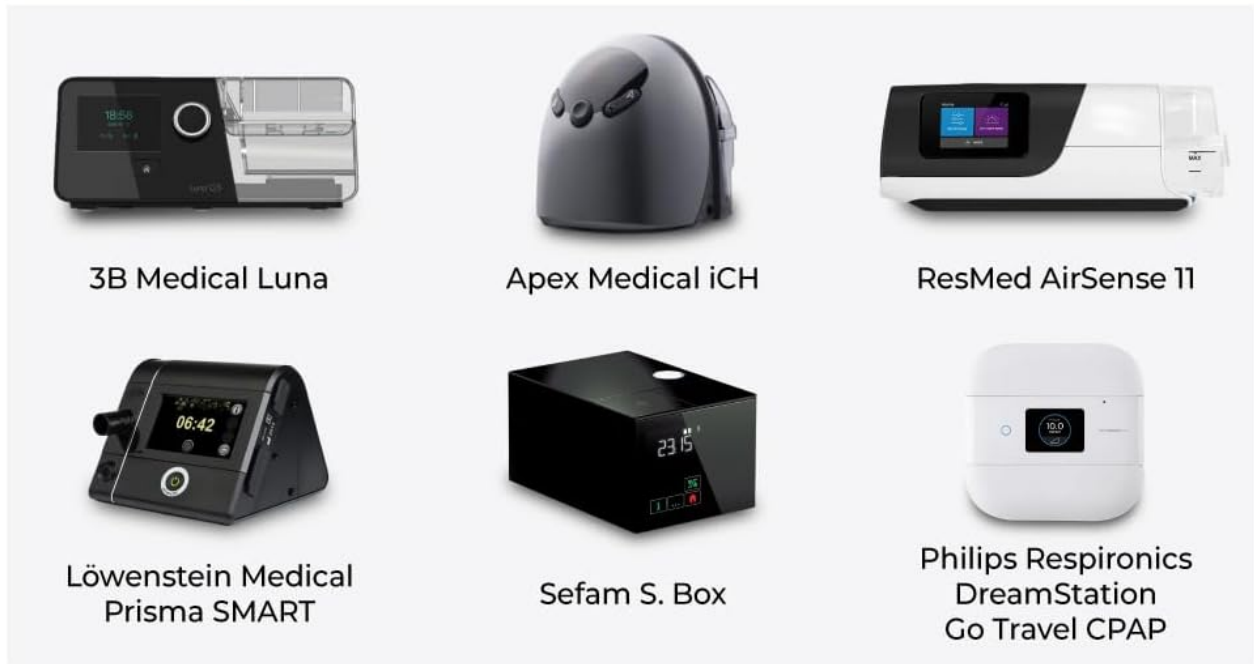


Figure 6: Connecting the Pilot-24 Lite to a ResMed S9 CPAP machine.

COMPATIBLE WITH S9



Cables Included

Short Charging Adapter

connected to AC

DC Output Cable

connected to CPAP

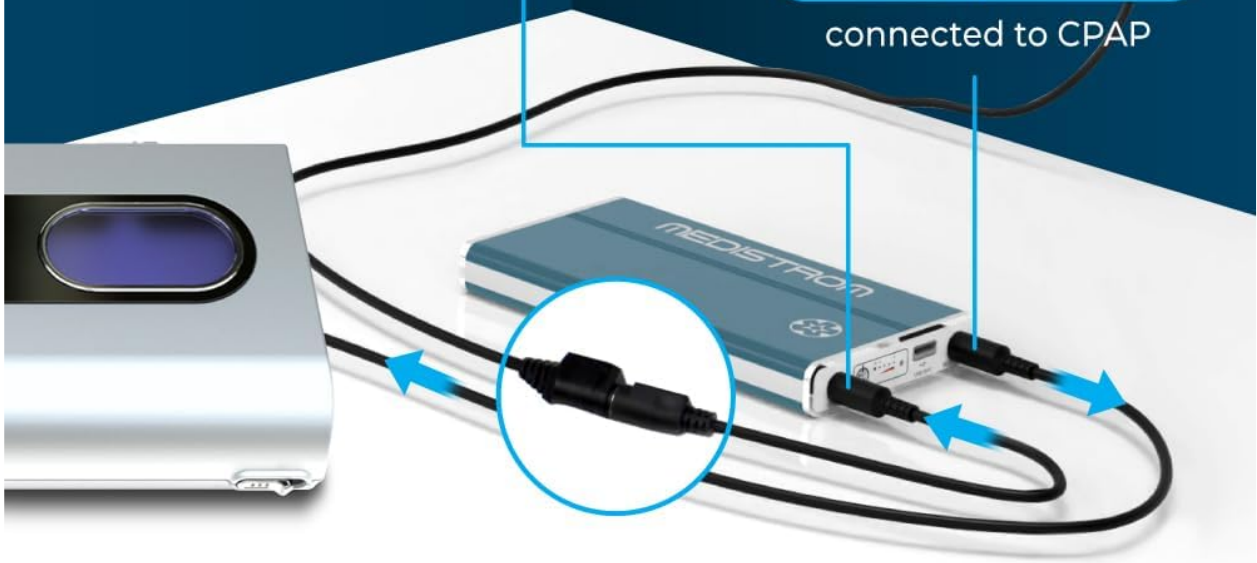


Figure 7: The Pilot-24 Lite is compatible with various 24V CPAP machines. Cables for devices other than AirSense 10, AirMini, and S9 are sold separately.



Accompanying Your CPAP Journey

Medistrom Pilot -24 Lite

 FAA Compliant TSA Approved	 560g (1.3lbs)	 Built-in USB Port	 Built-in LED Flashlight
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**Durable Aluminum Casing
with Great Heat Dissipation**

**LG Industrial-grade Cells
for Long-Lasting Power**

Figure 8: Illustration of the charging mode for the Pilot-24 Lite using the original AirSense 10 AC Power Cable.

Specifications

Capacity	95Wh
Cell Type	Industrial grade genuine LG rechargeable lithium ion cells
Rated Input	24V, 60W (NORMAL), 90W (MAX)
Rated Output	DC 24V, 3.75A
USB Out	5V, 2.5A
Life Span	Over 500 full charge/discharge cycles
Case	Aluminum
Dimensions	17cm x 9cm x 2cm (6.7" x 3.5" x 0.8"), 560g (1.3lbs)
Power Gauge	4 stage Charge Level Indicator Lights
Recharge Time	2-3 hours via Aircsense 10 AC Adapter, 7-9 hours via the Resmed AirMini AC Adapter

Figure 9: Illustration of the charging mode for the Pilot-24 Lite using the original AirMini AC Power Cable.



Figure 10: Illustration of the charging mode for the Pilot-24 Lite using the original S9 AC Power Cable.

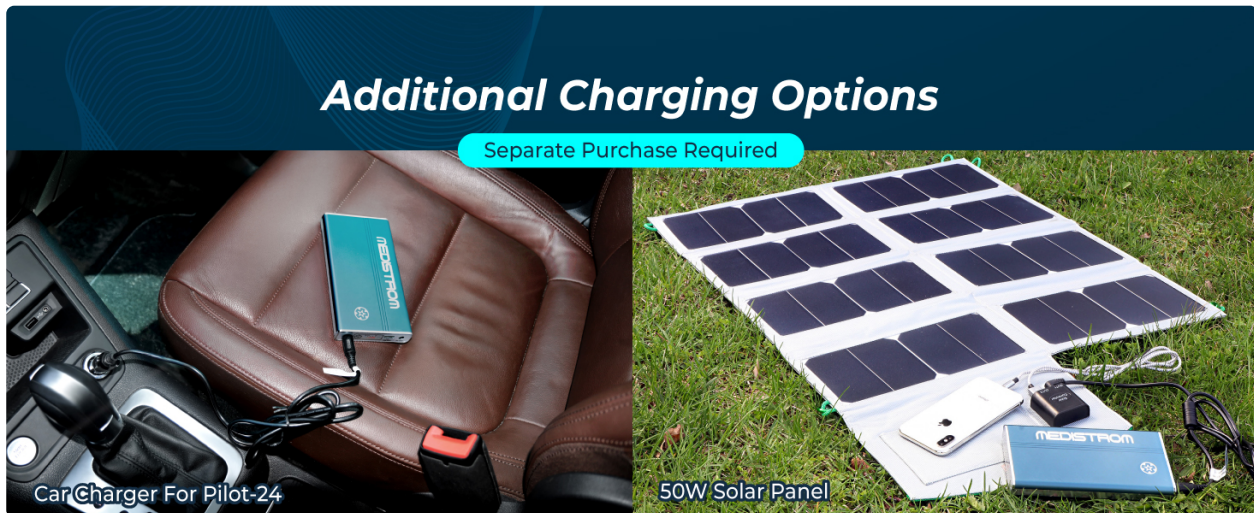


Figure 11: Approximate charge times for the Pilot-24 Lite using various adapters.

3. OPERATING INSTRUCTIONS

The Pilot-24 Lite can be used in two primary modes: Travel Mode and Backup Mode.

Travel Mode

In Travel Mode, the Pilot-24 Lite powers your CPAP machine directly, ideal for off-grid use. Connect the appropriate DC output cable from the battery's "DC OUT" port to your CPAP machine.

Achieve Runtime of 8-16 Hours

To achieve at least 8 hours of runtime, you must **disable the humidifier** and **heated tubing** and use an average pressure setting of 10cm H₂O. By disabling these features, the battery can last between 8-16 hours depending on your CPAP model and pressure settings.

Tested Runtime

With disabled humidifier & heated tubing

	AirSense 10	AirMini	AirSense 11
CPAP Settings	Runtime		
20 cm H ₂ O	6h 32m	7h 08m	6h 58m
15 cm H ₂ O	7h 58m	9h 50m	8h 55m
10 cm H ₂ O	11h 16m	13h 49m	12h 33m
5 cm H ₂ O	16h 25m	22h 55m	20h 11m

Using the Humidifier or Heated Tubing will reduce battery runtime to about 2-4 hours.

Figure 12: Illustration of the travel mode for the Pilot-24 Lite with an AirSense 10.

Compatible Machines

*CPAP Machines NOT Included in Purchase

Cable Kits Included with Pilot-24 Purchase

Purchase of Medistro Pilot-24 Lite comes with all necessary cables to connect to these machines.



ResMed AirMini



ResMed AirSense 10



ResMed S9

What's Included



Pilot-24 Lite



Short Charging Adapter & DC Output Cable for **AirMini**



DC Output Cable for **AirSense 10**



Short Charging Adapter & DC Output Cable for **S9**

Separate Purchase of Cable Kit Required



ResMed AirSense 11



Sefam S. Box



3B Medical Luna



Apex Medical iCH



Philips Respironics DreamStation Go Travel CPAP



Löwenstein Medical Prisma SMART

Figure 13: Illustration of the travel mode for the Pilot-24 Lite with an AirMini.

HOW TO USE

CHARGING MODE

Using the CPAP machine's AC Power Cable to charge the battery



HOW TO USE

TRAVEL MODE

Power your CPAP on the go with Medistro Pilot-24 Lite



HOW TO USE

BACKUP MODE

CPAP machine continues to run with Pilot-24 Lite battery's power when main power is disrupted



Figure 14: Illustration of the travel mode for the Pilot-24 Lite with an S9.

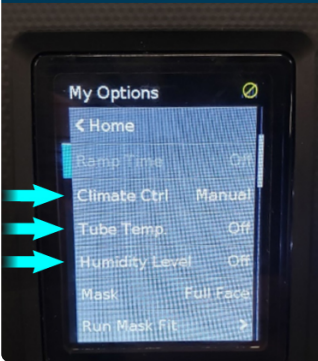
Backup Mode

In Backup Mode, the Pilot-24 Lite acts as an uninterruptible power supply (UPS). Connect your CPAP machine's original AC power cable to a wall outlet, and then connect the Pilot-24 Lite to your CPAP machine

using the DC output cable. If main power is disrupted, the battery will seamlessly take over, ensuring continuous therapy.

Maximizing Pilot-24 Battery Life

For Your Resmed Airsense 10/11



• Example of proper settings on the Airsense 10 •

- ① Connect your heated tubing and water reservoir/humidifier to your CPAP device.
- ② Turn on your AirSense 10/11. You should see two options: My Options and Sleep Report.
- ③ Use the dial or touch screen to select My Options.
- ④ Before making changes, we recommend writing down the current settings for **Climate Control**, **Humidity Level** & **Tube Temperature**, in case you want to restore them later.
- ⑤ In My Options, scroll down to **Climate Control**, then press the dial or tap the screen to select it. Set this option to Manual in order to disable both the humidifier and heated tubing.
- ⑥ Next, go to **Humidity Level**. If it's set to a number between 1-8, turn the dial all the way to the left until you see Off, then press the dial to confirm. For the Airsense 11, press Off and then press OK by tapping the screen.
- ⑦ Finally, scroll down to **Tube Temperature**. Turn the dial all the way to the left until you see Off, then press the dial to confirm. For the Airsense 11, press Off and then press OK by tapping the screen.

For other CPAP models, please check your machine's instruction manual.

Figure 15: Illustration of the backup mode for the Pilot-24 Lite with an AirSense 10.

Original S9 AC Power Cable
*The cable comes with the CPAP machine

HOW TO USE

CHARGING MODE

Using the CPAP machine's AC Power Cable to charge the battery



Original S9 AC Power Cable
*The cable comes with the CPAP machine

HOW TO USE

TRAVEL MODE

Power your CPAP on the go with Medistrom Pilot-24 Lite



Original S9 AC Power Cable
*The cable comes with the CPAP machine


HOW TO USE

BACKUP MODE

CPAP machine continues to run with Pilot-24 Lite battery's power when main power is disrupted



Figure 16: Illustration of the backup mode for the Pilot-24 Lite with an AirMini.



100%
Charge time will vary based on wattage of charger used

AirSense 10 AC Adapter	2-3 hours
ResMed AirMini AC Adapter	7-9 hours
Medistrom 90W AC Power Adapter <small>Separate Purchase Required</small>	2-3 hours Faster charging, especially recommended for ResMed AirMini users
Car Charger <small>Separate Purchase Required</small>	3-5 hours
50W Solar Panel <small>Separate Purchase Required</small>	3-3.5 hours

Figure 17: Illustration of the backup mode for the Pilot-24 Lite with an S9.

Maximizing Runtime

To achieve the maximum runtime of 8-16 hours, it is crucial to disable the humidifier and heated tubing features on your CPAP machine. Runtime varies based on pressure settings and device model. Using these features will significantly reduce battery life to approximately 2-4 hours.

8 TO 16 HOURS OF RUN-TIME



Humidifier



Heated Tube



95Wh Battery

To achieve at least 8 hours of runtime, you must **disable the humidifier** and **heated tubing** and use an average pressure setting of 10cm H₂O. By disabling these features, the battery can last between 8-16 hours depending on your CPAP model and pressure settings.

Figure 18: Information on achieving 8-16 hours of runtime by disabling humidifier and heated tubing.



Figure 19: Example of proper settings on a ResMed AirSense 10 to maximize battery life by turning off Climate Control, Humidity Level, and Tube Temperature.

Additional Features

- **USB Output:** The Pilot-24 Lite includes a USB-A output port (5V, 2.5A) for charging smartphones, tablets, and other USB-powered devices.
- **LED Flashlight:** Press and hold the power button for a few seconds to activate the built-in LED flashlight. This can be useful in low-light conditions or during power outages.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Pilot-24 Lite battery.

- **Cleaning:** Wipe the battery's exterior with a soft, dry cloth. Do not use liquid cleaners or immerse the device in water.
- **Storage:** Store the battery in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is charged to approximately 50-70% capacity and recharge every 3-6 months to prevent deep discharge.
- **Battery Care:** Avoid fully discharging the battery regularly. While designed for many cycles, maintaining a partial charge when not in use can extend its overall lifespan.

5. TROUBLESHOOTING

If you encounter issues with your Pilot-24 Lite, refer to the following common troubleshooting tips:

- **Battery Not Charging:** Ensure the charging cable is securely connected to both the battery's "CHARGE" port and the power adapter, and that the power adapter is plugged into a working wall outlet. Verify the power adapter is the correct voltage for the battery.
- **CPAP Machine Not Powering On/Intermittent Power:** Check that the DC output cable is firmly connected to both the battery's "DC OUT" port and your CPAP machine. Ensure the battery has sufficient charge. If the connection feels loose or heats up, the cable may be faulty and require replacement.
- **Short Runtime:** Confirm that the humidifier and heated tubing features on your CPAP machine are disabled, as these significantly increase power consumption. Check your CPAP pressure settings; higher pressures consume more power.
- **Battery Beeping:** A beeping sound typically indicates that the battery charge is low. Recharge the battery immediately.
- **Flashlight Not Working:** Ensure the battery has charge. Press and hold the flashlight button for the specified duration to activate it.

6. SPECIFICATIONS

Feature	Specification
Capacity	95Wh
Cell Type	Industrial grade genuine LG rechargeable lithium ion cells
Rated Input	24V, 60W (NORMAL), 90W (MAX)
Rated Output	DC 24V, 3.75A
USB Out	5V, 2.5A
Life Span	Over 500 full charge/discharge cycles
Case	Aluminum
Dimensions	17cm x 9cm x 2cm (6.7" x 3.5" x 0.8"), 560g (1.3lbs)
Power Gauge	4 stage Charge Level Indicator Lights
Recharge Time	2-3 hours via Airsense 10 AC Adapter, 7-9 hours via the ResMed AirMini AC Adapter



Figure 20: Detailed specifications for the Medistrom Pilot-24 Lite.

7. WARRANTY AND SUPPORT

Medistrom products are manufactured to high-quality standards. For specific warranty information, including terms, conditions, and duration, please refer to the warranty card included with your product packaging or visit the official Medistrom website. For technical support, troubleshooting assistance, or to inquire about replacement parts and accessories, please contact Medistrom customer service through the contact information provided in your product documentation.