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## Medistrom Pilot Flex P98MPF

# Medistrom Pilot Flex 98Wh CPAP Battery Backup Power Supply

Instruction Manual

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of your Medistrom Pilot Flex 98Wh CPAP Battery Backup Power Supply. Please read all instructions carefully before operating the device. This battery is designed to provide portable power for 12V and 24V CPAP machines, offering uninterrupted therapy at home, during travel, or in power outages.

# COMPATIBLE WITH

## MORE 12V & 24V DEVICES

 Connectivity Cables Sold Separately



ResMed AirSense 10



SmartMed iBreeze



Philips Dreamstation



3B Medical Luna



Apex Medical iCH



Philips Dreamstation 2



Löwenstein Medical  
Prisma SMART



Sefam S-Box



Philips Respironics  
System One S60

*Image 1.1: Medistrom Pilot Flex 98Wh CPAP Battery connected to a CPAP machine.*

## 2. SAFETY INFORMATION

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Adhering to these safety guidelines is crucial for preventing injury and damage to the device.

- Do not expose the battery to extreme temperatures, direct sunlight, or moisture.
- Do not disassemble, puncture, or modify the battery.
- Use only approved charging cables and adapters.
- Keep out of reach of children.
- If the battery shows signs of damage, overheating, or leakage, discontinue use immediately and contact support.
- The Pilot Flex is TSA-approved and FAA-compliant for air travel (under 100Wh limit). Always confirm current airline regulations before flying.

## 3. PACKAGE CONTENTS

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Verify that all items listed below are included in your package:

- Medistrom Pilot Flex Battery
- Product Manual & Quick Start Guide
- Short Charging Adapter and DC Output Cable for ResMed AirMini
- Short Charging Adapter and DC Output Cable for ResMed AirSense 11

**Note:** Cables for CPAP machines other than AirSense 11 and AirMini must be purchased separately.

## MULTI-PURPOSE TRAVEL BATTERY

98wh <sup>Power</sup>

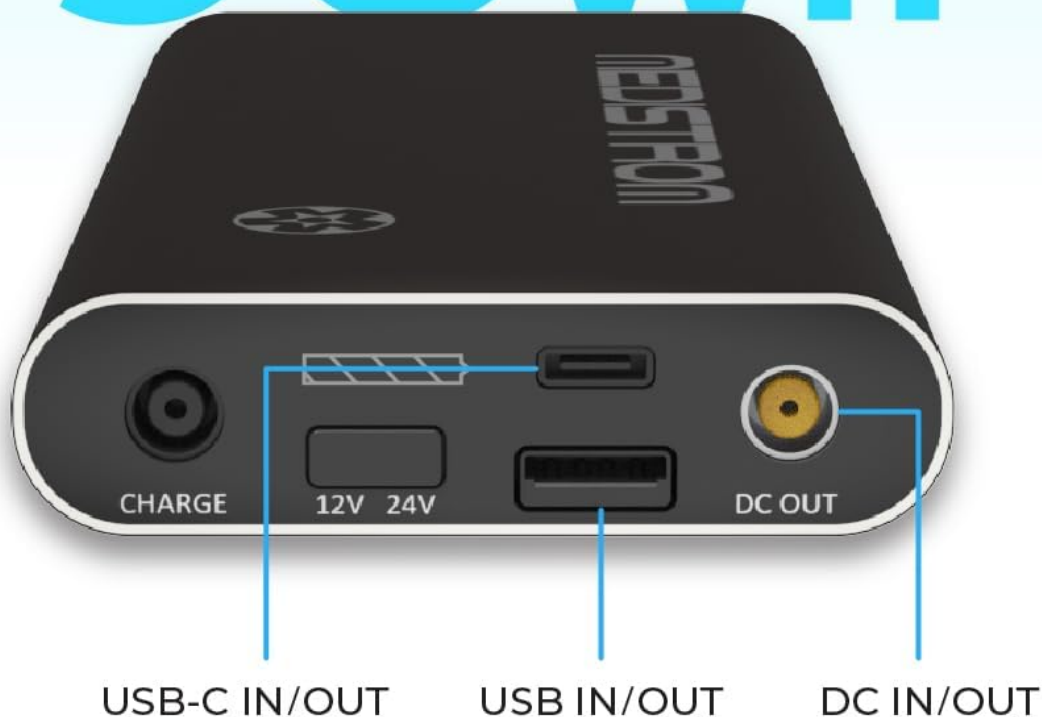


Image 3.1: Included items in the Pilot Flex package.

### 4. PRODUCT FEATURES AND OVERVIEW

The Medistrom Pilot Flex is a compact and durable power solution for your CPAP therapy.

#### Key Features:

- **Dual Voltage Technology:** Supports both 12V and 24V CPAP machines.
- **Extended Runtime:** Provides an average of 16 hours of CPAP use on a single charge. Actual runtime varies based on pressure settings, humidifier use, and heated tubing.
- **Durable Construction:** Built with a tough aluminum case and LG industrial-grade cells for longevity.
- **Travel Friendly:** Weighs 1.2 lbs (544g) and is 17 in<sup>3</sup> in volume, making it TSA-approved and FAA-compliant for carry-

on luggage.

- **Multiple Recharging Options:** Can be recharged via various methods (additional accessories may be required).
- **Flowthrough Capability:** Functions as a backup power supply, allowing your CPAP machine to continue running seamlessly during power outages.
- **Multi-purpose Ports:** Includes USB-C IN/OUT, USB IN/OUT, and DC IN/OUT ports for versatile charging and powering.

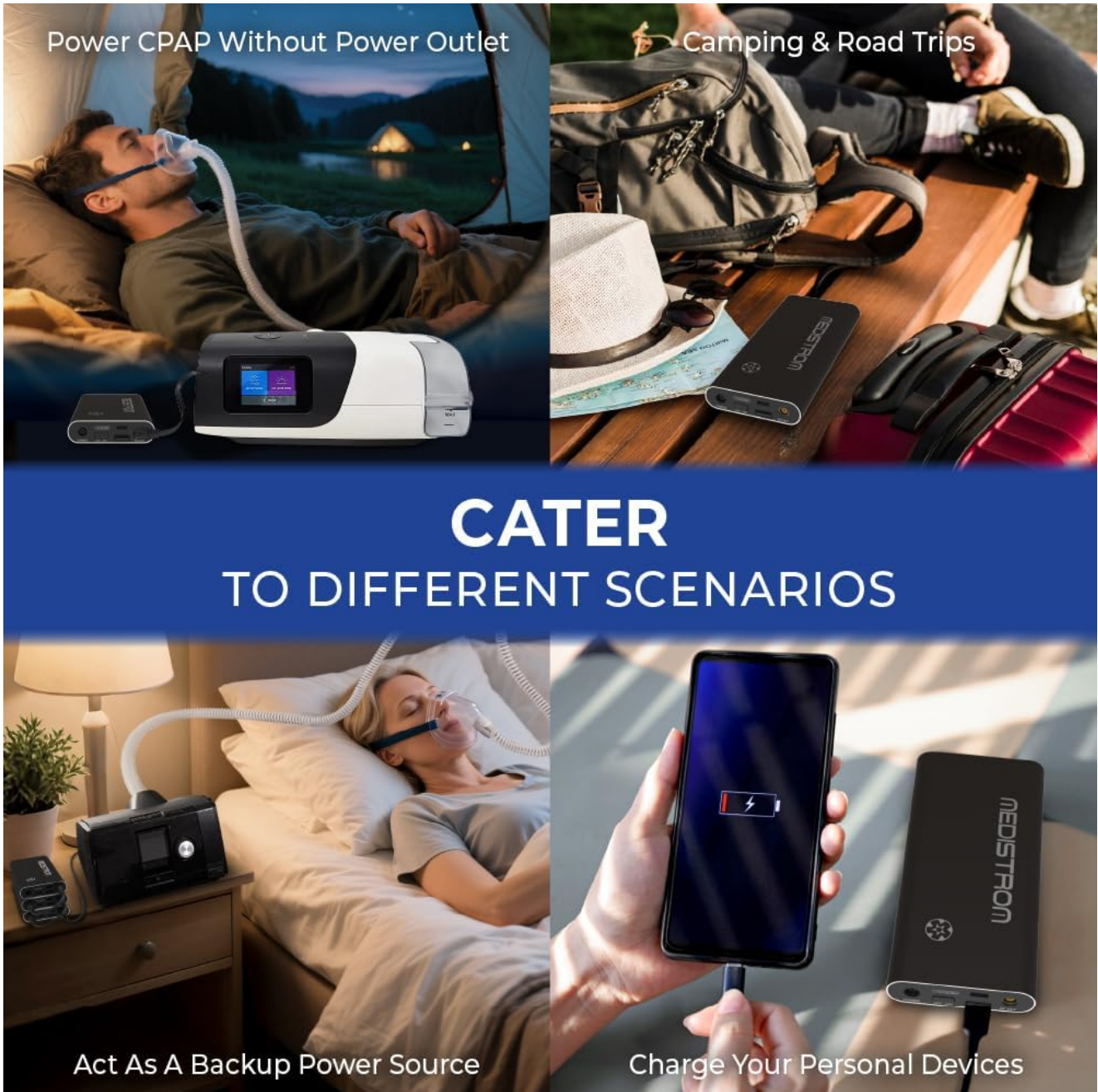


Image 4.1: Overview of Medistrom Pilot Flex ports.

# BATTERY FEATURES

*Dual Voltage  
Technology*

12V  
&  
24V

*Average Run  
Time of 16 Hours*

16  
HOURS



*Multiple  
Recharging Options*

13  
AI  
Aluminum

*Always Aluminum,  
Never Plastic*



*Different Colour  
Choices*



On Low pressure and with Humidifier & Heated Tubing Turned Off

*Image 4.2: Physical dimensions and travel-friendly aspects of the Pilot Flex.*

**Battery Features Visualized:**

# COMPATIBLE WITH AIRSENSE 11 **BACKUP MODE**

✓ Cables Included

Short Charging Adapter  
connected to AC

DC Output Cable  
connected to CPAP

Original AirSense 11 AC Power Cable  
*\*The cable comes with the CPAP machine*



# COMPATIBLE WITH AIRMINI **BACKUP MODE**

✓ Cables Included

Medistrom 90W AC Adapter  
(separate purchase or another compatible adapter)

DC Output Cable  
connected to CPAP



The AirMini AC 20W adapter is intended for standard charging. For backup mode, please use a higher-capacity adapter such as the Medistrom AC Adapter or the AirSense 10 AC Adapter.

Image 4.3: Pilot Flex features with AirMini.

# BATTERY FEATURES

*Dual Voltage  
Technology*

12V  
&  
24V

*Average Run  
Time of 16 Hours*

16  
HOURS



*Multiple  
Recharging Options*

13  
Al  
Aluminum

*Always Aluminum,  
Never Plastic*



*Different Colour  
Choices*



On Low pressure and with Humidifier & Heated Tubing Turned Off

*Image 4.4: Pilot Flex features with AirSense 11.*

## 5. COMPATIBILITY

The Pilot Flex is compatible with a wide range of 12V and 24V CPAP machines. Specific cables are required for connection.

### **Machines Compatible with Included Cables:**

- ResMed AirSense 11
- ResMed AirMini

### **Machines Requiring Separately Purchased Cables:**

- ResMed AirSense 10
- Philips DreamStation 1
- Philips DreamStation 2
- Philips System One S60
- Apex Medical iCH
- Löwenstein Prisma SMART

- 3B Medical Luna G3
- SmartMed iBreeze
- Sefam S-Box

## WHAT'S INCLUDED



Pilot Flex Battery



Product Manual &  
Quick Start Guide  
(English, French, Spanish)



Short Charging Adapter and  
Output Cable for ResMed AirMini



Short Charging Adapter and  
Output Cable for AirSense 11

**⚠** Cables for other machines other than AirSense 11 and AirMini must be purchased separately.

Image 5.1: CPAP machines compatible with Medistrom Pilot Flex (cables sold separately for most).

### Accompanying Your CPAP Journey

Medistrom Pilot Flex

FAA Compliant  
TSA Approved

544g  
(1.2lbs)

Built-in  
USB Port

Built-in LED  
Flashlight

Durable Aluminum Casing  
with Great Heat Dissipation

LG Industrial-grade Cells  
for Long-Lasting Power

## 6. SETUP AND CHARGING

Follow these steps to charge your Pilot Flex battery and connect it to your CPAP machine.

### Charging the Pilot Flex Battery:

Use the provided Short Charging Adapter and your CPAP machine's original AC Power Cable to charge the Pilot Flex. Connect the Short Charging Adapter to the AC power source, then connect it to the Pilot Flex battery's charge port.

**Compatible Machines**  
\*CPAP Machines NOT Included in Purchase

**Cable Kits Included with Pilot Flex Purchase**  
Purchase of Medistrom Pilot Flex comes with all necessary cables to connect to these machines.

**Separate Purchase of Cable Kit Required**

**ResMed AirMini**      **ResMed AirSense 11**

**ResMed AirSense 10**      **SmartMed iBreeze**      **3B Medical Luna**      **Sefam S-Box**

**Apex Medical iCH**      **Philips Respironics DreamStation 1 and 2 Series**      **Löwenstein Medical Prisma SMART**      **Philips Respironics System One S60**

**Pilot Flex Battery**      **Short Charging Adapter & DC Output Cable for AirMini**      **Short Charging Adapter & DC Output Cable for AirSense 11**

Image 6.1: Charging and connection modes for AirMini.

**Power In Every Possible Situation**

**ON THE GO**  
Using Medistrom Pilot Flex as main power source.

**EMERGENCIES**  
Using Medistrom Pilot Flex as backup power when power at home goes off.

Image 6.2: Charging and connection modes for AirSense 11.

### Connecting to your CPAP Machine:

The Pilot Flex supports two primary operational modes when connected to a CPAP machine:

1. **Travel Mode:** Connect the DC Output Cable from the Pilot Flex to your CPAP machine to power it directly when no AC outlet is available.
2. **Backup Mode (Flowthrough):** Connect the Short Charging Adapter to AC power, then to the Pilot Flex. Connect the DC Output Cable from the Pilot Flex to your CPAP machine. In this configuration, the CPAP machine will draw power from the AC outlet. If AC power is interrupted, the Pilot Flex will automatically provide power, ensuring uninterrupted therapy.

## 7. OPERATING INSTRUCTIONS

Once connected, the Pilot Flex provides reliable power for your CPAP therapy in various scenarios.

## Runtime Considerations:

The average runtime is up to 16 hours. Actual runtime is significantly affected by:

- **Pressure Setting:** Higher pressure settings consume more power.
- **Humidifier Use:** Using a humidifier drastically reduces battery runtime. It is recommended to turn off the humidifier for maximum battery life.
- **Heated Tubing:** Heated tubing also consumes significant power. Turn off heated tubing to extend runtime.

For extended therapy time, multiple Pilot Flex batteries can be connected together (refer to specific connection instructions for multi-battery use, if applicable, or contact support).

# World's Leading Battery and Backup Power Supply Technology

Medistrom modern technology used in preserving power is a product of revolutionary innovations and discoveries made by the world's top engineers.

Medistrom produces the best quality backup power supply that performs up to the top standards and provides the highest reliability.

Medistrom's state of the art technology is used to ensure that the power supply to PAP devices is never interrupted, even if the main power supply is down.

The image displays a collection of Medistrom power supply products. At the top right is the Medistrom logo, a purple starburst icon next to the brand name. Below it is a large, white, rectangular solar panel with a grid of dark photovoltaic cells. In the center and foreground are several smaller, rectangular backup power supplies in various colors (blue, black, white). Some are in their original retail packaging, which includes a carrying case and a user manual. Various cables and connectors are also visible, including a power cord with a three-pronged plug and several different types of connectors for medical devices.

Image 7.1: Pilot Flex estimated runtime chart.

## Usage Scenarios:

# TRAVEL FRIENDLY



Image 7.2: Pilot Flex in various scenarios.



Image 7.3: Pilot Flex providing power in various situations.

## 8. ADDITIONAL CHARGING OPTIONS

Beyond standard AC charging, the Pilot Flex can be recharged using optional accessories (sold separately).

- **Car Charger:** For recharging the Pilot Flex from a vehicle's 12V power outlet.
- **Solar Panel:** For recharging using solar energy, ideal for off-grid use.

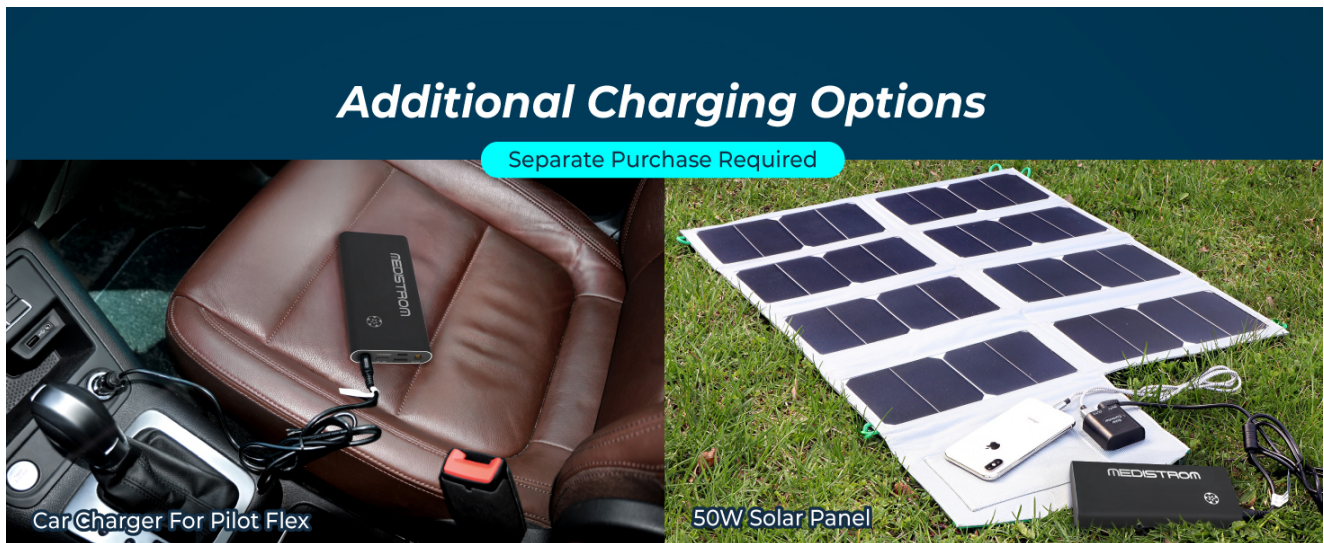


Image 8.1: Optional charging accessories for Pilot Flex.

## 9. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your Pilot Flex battery.

- **Cleaning:** Wipe the 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. For long-term storage, charge the battery to approximately 50-70% every 3-6 months to preserve battery health.
- **Battery Life:** The battery contains industrial-grade lithium-ion cells designed for a long cycle life. Performance may gradually decrease over several years of use.

## 10. TROUBLESHOOTING

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If you encounter issues with your Pilot Flex, refer to the following common problems and solutions:

- **Battery Not Charging:**
  - Ensure all charging cables are securely connected to the power source and the Pilot Flex.
  - Verify that the power outlet is functional.
  - Confirm you are using the correct charging adapter and your CPAP machine's original AC power cable.
- **CPAP Machine Not Powering On/Working:**
  - Check that the DC output cable is firmly connected to both the Pilot Flex and your CPAP machine.
  - Ensure the Pilot Flex battery has sufficient charge.
  - Verify that the correct DC output cable for your specific CPAP machine model is being used. Cables for machines other than AirSense 11 and AirMini are sold separately.
  - Turn off any humidifiers or heated tubing on your CPAP machine, as some machines may require higher power than the battery can supply with these features active.
- **Short Runtime:**
  - Humidifiers and heated tubing significantly reduce battery runtime. Turn these features off for maximum duration.

- Higher pressure settings also consume more power.
- Ensure the battery is fully charged before use.

If problems persist, please contact Medistrom customer support.

## 11. SPECIFICATIONS

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Feature	Detail
Model Number	Pilot Flex P98MPF
Battery Type	Lithium Ion
Capacity	98Wh
Output Voltage	12V & 24V (Dual Voltage)
Product Dimensions	6.57 x 2.95 x 0.79 inches (16.7 x 7.5 x 2 cm)
Weight	1.2 lbs (544g)
Recharge Time	2-3 hours (approx.)

## 12. WARRANTY AND SUPPORT

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For warranty information, product support, or to purchase additional accessories, please visit the official Medistrom website or contact their customer service department. Keep your proof of purchase for warranty claims.

**Manufacturer:** Choice One Medical