

MEDISTROM

- Pilot-12 Plus
- Pilot-24 Plus

CPAP BATTERY / BACKUP POWER SUPPLY

CPAP BATERIA / ALIMENTACIÓN PORTÁTIL USTED

BATTERIE CPAP / ALIMENTATION PORTABLE



ENGLISH - Thank you for purchasing MEDISTROM Pilot-12 Plus/Pilot-24 Plus CPAP Battery /Portable Power Supply. Please read this product user guide carefully before putting the equipment into operation for the first time.

ENGLISH – page 3

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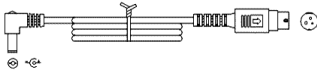
SECTION 1 - PILOT-24 PLUS

1.1 PACKAGE CONTENTS: Pilot-24 Plus

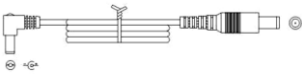
A. CPAP Battery



B. Output cable for ResMed S9™



C. Output cable for ResMed AirSense™ 10



D. Connector Tip for ResMed S9™ Original Power Adapter

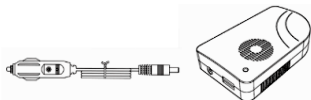


E. Battery sleeve



***** SOLD SEPARATELY *****

F. Car charger for Pilot-24 Plus



G. Co-Pilot-24 Plus – add-on unit to extend battery life (Not functional as stand-alone unit)



1.2 IMPORTANT!

- **Using Pilot-12 Plus/ Pilot-24 Plus as Portable CPAP Battery with humidifier will significantly decrease run times! For optimal run times please disconnect the humidifier!**
- DO NOT Expose battery to temperatures above 40°C / 104°F – **Fire Hazard!**
- DO NOT Expose battery to temperatures below -10°C / 50°F as the lithium ion cells may become damaged!
- DO NOT Expose battery to relative humidity above 85%!
- Normal operating temperatures are 0°C / 32°F to 35°C / 95°F!
- Fully charge battery before storage and every 6 months!
- Use only with following PAP devices:
 - ResMed S9™ series
 - ResMed AirSense™ 10 series

Manufacturer is not responsible for damage done by the battery to any other device not listed above.

1.3 INTENDED USE AND COMPATIBILITY: Pilot-24 Plus

Pilot-24 Plus is equipped with industrial grade genuine rechargeable lithium ion cells which can be **used as a backup power source** to prevent interruption to PAP therapy in the case of an overnight power outage.

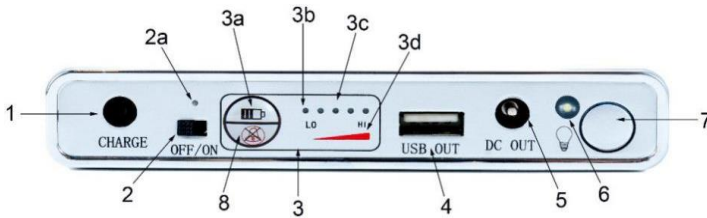
Pilot-24 Plus can serve as a **portable CPAP battery** during travel by air, land, or sea when the mains power source is unavailable.

Pilot-24 Plus also comes with a USB port which can be used to charge cellphones and other commonly used handheld devices.

Pilot-24 Plus is mainly **intended to be used with ResMed PAP machines** such as the S9™ and AirSense™ 10 series devices.

For a complete list of compatible devices, please visit our website: www.medistrom.com

1.4 CONTROL PANEL: Pilot-24 Plus



1. CHARGE
2. OFF/ON SWITCH
2a - OFF/ON indicator light
3. CHARGE LEVEL INDICATOR
3a - discharge level indicator button
3b - warning light is the far left LED
3c - 4 charge indicator lights
3d - LO to HI charge level indicator image
4. USB Port
5. DC OUT
6. Flashlight
7. Flashlight Control Button
8. Protection Alarm Mute Button

1. CHARGE PORT:

Charging the battery with ResMed AirSense™ 10 Original Power Adapter (Please Note: ResMed AirSense™ 10 Original Power Adapter is NOT included with Pilot-24 Plus. It is provided with the ResMed AirSense™ 10 PAP Device). Plug the ResMed AirSense™ 10 Original Power Adapter into the battery's CHARGE port. Ensure that the other end of the ResMed AirSense™ 10 Original Power Adapter is plugged in to the mains power outlet. Please note: The battery can be charged regardless of whether or not the battery is switched ON or OFF. If the battery is charging properly, the 4 green charge indicator lights (3c) will flash, and will light up solid green once it is fully charged.

Charging the battery with ResMed S9™ Original Power Adapter (Please Note: The ResMed S9™ Original Power Adapter is NOT

included with the Pilot-24 Plus. It is provided with the ResMed S9™ PAP device) plug the Connector Tip (D) into the ResMed S9™ Original Power Adapter. Plug the other end of the Connector Tip (D) into the battery's CHARGE port. Ensure that the other end of the ResMed S9™ Original Power Adapter is plugged in to the mains power outlet. Please note: The battery can be charged regardless of which way the OFF/ON switch is toggled. If the battery is charging properly, the four green charge indicator LEDs (3c) will flash, and will light up solid green once it is fully charged.

2. OFF/ON SWITCH: This switch allows the battery to be turned ON for usage and turned OFF for storage. When the battery is switched to the ON position, a blue OFF/ON indicator LED (2a) will turn on above the switch. When the battery is switched to the OFF position, the OFF/ON indicator light (2a) will NOT light up. **IMPORTANT!** Please remember to **toggle this switch to the ON position before using the battery** with the PAP device. Remember to turn the switch to OFF position before storing the battery. **CAUTION! FULLY CHARGE BATTERY BEFORE STORAGE AND EVERY 6 MONTHS AFTERWARD!**

3. CHARGE LEVEL INDICATOR: By pressing the charge level indicator button (3a) the charge level of the battery can be checked. The green LED (3c) will light up for 4 seconds showing the battery charge level while the battery is powering your PAP device. If 4 charge indicator lights (3c) are lit green, then the battery is fully charged. Please refer to the LO to HI charge level indicator image (3d) to determine the remaining power level. When the battery is charging, the charge indicator LEDs (3c) will light up in sequence until the charge reaches each level. When the battery is plugged into the charger, but is already fully charged, then all charge indicator lights are lit solid green. Warning Indication: Once CPAP battery is fully discharged, the orange warning light (3b) will flash, and the sound alarm will beep. Discontinue using your PAP device and charge the battery as soon as possible.

4. USB PORT: This port can be used to power and charge most electronic hand-held devices.

5. DC OUT: This port is used to connect a PAP device to the battery. First, select the proper output cable for the PAP device being used. Select Output Cable (B) for ResMed S9™, or Output Cable (C) for ResMed AirSense™ 10. Attach one end of the output cable to the PAP device and plug the other end into the “DC OUT” port on the battery.

6. LED Flashlight: LED Flashlight provides light.

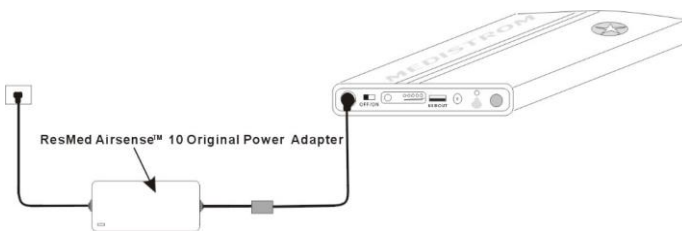
7. LED Flashlight Control Button: This button is used to turn the LED Flashlight on and off. Press the LED flashlight control button once to turn the flashlight on. Press it again to turn the flashlight off.

8. PROTECTIVE ALARM: Alarm will sound and yellow LED will flash when the remaining power of the battery is less than 5% or in case of battery failure. When alarm sounds, press the Mute button once to mute the sound. Yellow LED light stops flashing only after battery is charged or battery is turned off. Please note: if alarm sounds while battery is charging, please remove the charger from battery, and sound alarm will stop.

1.5 INSTRUCTIONS FOR USE: Pilot-24 Plus

A. Charging the battery

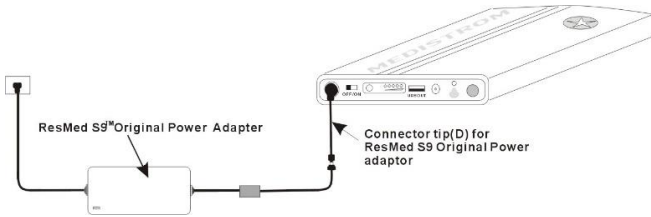
Charging the battery with ResMed AirSense™ 10 Original Power Adapter



(Please Note: ResMed AirSense™ 10 Original Power Adapter is NOT included with Pilot-24 Plus. It is provided with the ResMed AirSense™ 10 PAP Device). Plug the ResMed AirSense™ 10 Original Power Adapter into the battery’s CHARGE port. Ensure that the

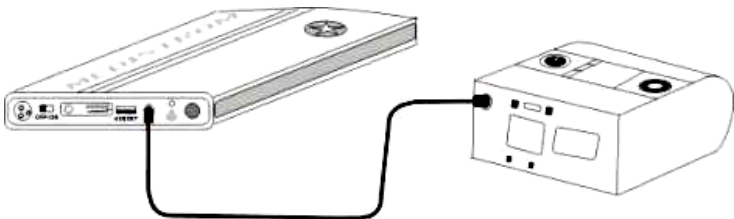
other end of the ResMed AirSense™ 10 Original Power Adapter is plugged in to the mains power outlet. Please note: The battery can be charged regardless of whether or not the battery is switched ON or OFF. If the battery is charging properly, the 4 green charge indicator lights (3c) will flash, and will light up solid green once it is fully charged.

Charging the battery with ResMed S9™ Original Power Adapter



(Please Note: ResMed S9™ Original Power Adapter is NOT included with Pilot-24 Plus. It is provided with the ResMed S9™ PAP Device) Plug the Connector Tip (D) into ResMed S9™ Original Power Adapter. Plug the other end of the Connector Tip (D) into the battery's CHARGE port. Ensure that the other end of the ResMed S9™ Original Power Adapter is plugged in to the mains power outlet. Please note: The battery can be charged regardless of whether or not the battery is switched ON or OFF. If the battery is charging properly, the 4 green charge indicator lights (3c) will flash, and will light up solid green once it is fully charged.

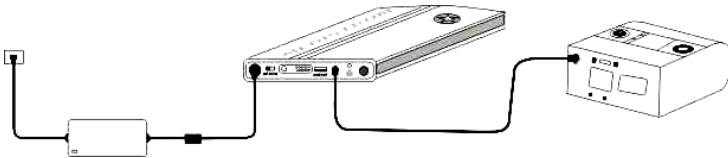
B. Using with PAP Device as a portable battery



Please Note: For longer run times, please disconnect the heated humidifier from the PAP device. When the PAP device is connected

with the heated humidifier and is used with the battery, the battery run time may be significantly decreased. Use DC OUT port to connect the PAP device to the battery. First, select the proper output cable for the PAP device being used. Select Output Cable (B) for ResMed S9™, or Output Cable (C) for ResMed AirSense™ 10. Attach one end of the output cable to the PAP device and plug the other end into the "DC OUT" port on the battery. Ensure that the battery is switched to "ON" position by using the OFF/ON switch (2) on battery control panel.

C. Using with PAP device as a backup power supply



Step 1 – Connect the battery to the charger (see instructions on charging the battery).

Step 2 – Connect the battery to PAP device and turn battery ON (see instructions above on using with PAP device as portable battery)

1.6 PRODUCT SPECIFICATIONS: Pilot-24 Plus

- Capacity: 98 Wh
- Cell Type: Industrial grade genuine rechargeable lithium ion cells manufactured by LG®
- Rated Output: DC 24 V, 3.75 A
- Life Span: Over 500 full discharge cycles
- Case: Aluminum
- Dimensions: 19x12x2 cm, Weight 1.8 lbs
- Power Gauge: 5 stage LED display power level indicator (includes charge and discharge state)
- Recharge time: About 2.5 hours per battery

1.7 CAR CHARGER FOR PILOT-24 PLUS INSTRUCTIONS:

Step 1: Plug End 1 of the Medistrom™ Car Charger into the 12 V car cigarette lighter socket and End 2 into the 24 V converter.

Step 2: NOTE! Please use your Output Cable for ResMed AirSense™ 10 (c) that is included with your Pilot-24 Plus CPAP Battery for Step 2! Plug in your Output Cable for ResMed AirSense™ 10 (c) into 24 V converter on one end, and into the Pilot-24 Plus CPAP Battery “CHARGE” jack on the other end.



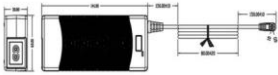
SECTION 2 - PILOT-12 PLUS

2.1 PACKAGE CONTENTS: Pilot-12 Plus

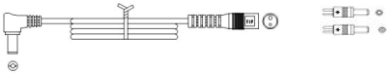
A. CPAP Battery



B. 90W battery charger



C. General output cable and D. Two connector tips (choose the tip that fits the PAP device being used with the battery)



E. Battery sleeve



F. Output Cable for Respirationics DreamStation



G. Output Cable for Respirationics RemStar System One S60



******* SOLD SEPARATELY *******

H. Car charger for Pilot-12



I. Co-Pilot-12 – add-on unit to extend battery life (Not functional as stand-alone unit)



2.2 IMPORTANT!

- DO NOT Expose battery to temperatures above 40 °C / 104 °F – **Fire Hazard!**
- DO NOT Expose battery to temperatures below -10°C / 50 °F as the lithium ion cells may become damaged!
- DO NOT Expose battery to relative humidity above 85%!
- Normal operating temperatures are 0 °C / 32 °F to 35°C/95°F!
- Fully charge battery before storage and every 6 months!
- Use only with following PAP devices:
 - Philips Respironics RemStar System One series
 - Philips Respironics RemStar System One S60 series
 - Devilbiss Intellipap series
 - HDM Z1 series

Manufacturer is not responsible for damage done by the battery to any other device not listed above!

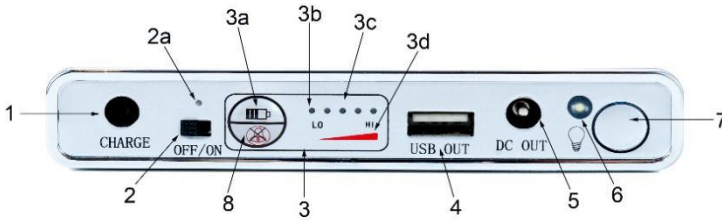
2.3 INTENDED USE AND COMPATIBILITY: Pilot-12 Plus

RESMED DEVICE WARNING!!! Pilot-12 Plus is NOT COMPATIBLE with any PAP devices manufactured by ResMed, even if one of the three connector tips (D) fits the ResMed device. Medistrom is NOT RESPONSIBLE for damages caused as a result of such misuse.

Pilot-12 Plus is equipped with industrial grade genuine rechargeable lithium ion cells which can be **used as a backup power source** to prevent interruption to PAP therapy in the case of an overnight power outage. Pilot-12 Plus can serve as a **portable CPAP battery** during travel by air, land or sea when the mains power source is unavailable. Pilot-12 Plus also comes with a USB port which can be used to charge cellphones and other commonly used handheld devices. **Pilot-12 Plus is intended to be used with 12 V PAP machines** such as most PAP devices manufactured by Philips Respironics, DeVilbiss, and others.

For a complete list of compatible devices please visit our website: www.medistrom.com

2.4 CONTROL PANEL: Pilot-12 Plus



1. CHARGE
2. OFF/ON SWITCH
2a - OFF/ON indicator light
3. CHARGE LEVEL INDICATOR
3a - discharge level indicator button
3b - warning light is the far left LED
3c - 4 charge indicator lights
3d - LO to HI charge level indicator image
4. USB PORT
5. DC OUT
6. Flashlight
7. Flashlight Control Button
8. Protection Alarm Mute Button

1. CHARGE PORT: Plug the 90W battery charger (B) into the battery's CHARGE port. Ensure that the other end of the charger is plugged in to the mains power outlet. Note: The battery can be charged regardless of which position the OFF/ON switch is toggled. If the battery is charging properly, the four green charge indicator LEDs (3c) will flash, and will light up solid green once it is fully charged.

2. OFF/ON SWITCH: This switch allows the battery to be turned ON for usage and turned OFF for storage. When the battery is switched to the ON position, a blue OFF/ON indicator light (2a) will appear above the switch. When the battery is switched to the OFF position, the OFF/ON indicator light (2a) will NOT appear. IMPORTANT: Please remember to turn this switch to ON position before you start using the battery with the PAP device. Remember to toggle the switch to

the OFF position before storing the battery. CAUTION: FULLY CHARGE BATTERY BEFORE STORAGE AND EVERY 6 MONTHS!

3. CHARGE LEVEL INDICATOR: By pressing the charge level indicator button (3a) the charge level of the battery can be checked. The green LED (3c) will light up for 4 seconds showing the battery charge level, while battery is powering your PAP device. If 4 charge indicator lights (3c) are lit green, then the battery is fully charged. Please refer to the LO to HI charge level indicator image (3d) to determine the remaining power level. When the battery is charging, the charge indicator LEDs (3c) will light up in sequence the charge reaches each level. When the battery is plugged into the charger, but is already fully charged, then all charge indicator lights are lit solid green. Warning Indication: Once CPAP battery is fully discharged, the orange warning light (3b) will flash, and the sound alarm will beep. Discontinue using your PAP device and charge the battery as soon as possible.

4. USB PORT: This port can be used to power and charge most electronic hand-held devices.

5. DC OUT: This port is used to connect a PAP device to the battery. First, select the proper output cable for the PAP device being used. Select Output Cable (B) for ResMed S9™, or Output Cable (C) for ResMed AirSense™ 10. Attach one end of the output cable to the PAP device and plug the other end into the “DC OUT” port on the battery.

6. LED Flashlight: LED Flashlight provides light.

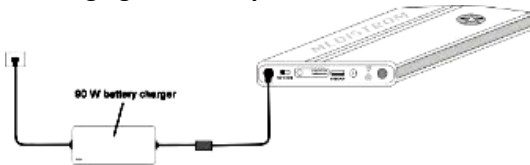
7. LED Flashlight Control Button: This button is used to turn the LED Flashlight on and off. Press the LED flashlight control button once to turn the flashlight on. Press it again to turn the flashlight off.

8. PROTECTIVE ALARM: Alarm will sound and yellow light will flash when the remaining power of the battery is less than 5% or in case of battery failure. When alarm sounds, press the Mute button once to mute the sound. Yellow LED light stops flashing only after battery is charged or battery is turned off. Please note: if alarm

sounds while battery is charging, please remove the charger from battery, and the sound alarm will stop.

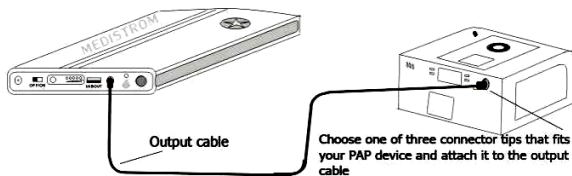
2.5 INSTRUCTIONS FOR USE: Pilot-12 Plus

A. Charging the battery



Plug the 90W battery charger (B) into the battery's CHARGE port. Ensure that the other end of the charger is plugged in to the mains power outlet. Please note: The battery can be charged regardless of whether or not the battery is switched ON or OFF. If the battery is charging properly, the four green charge indicator lights (3c) will flash, and will light up solid green once it is fully charged.

B. Using with PAP Device as a portable battery



Please Note: To increase run time, **please disconnect the heated humidifier from the PAP device.** When PAP device is connected with the heated humidifier and is used with the battery, the battery run time may be significantly decreased. Use DC OUT port to connect the PAP device to the battery. First, select one of the Two Connector Tips (D) that fits the PAP device being used, then connect this tip to the Output Cable (C). Attach the end of the Output Cable (C), with the connector tip (D), to the PAP device and plug the other end of the Output Cable (C) into the "DC OUT" port on the battery. Ensure that the battery is switched to "ON" position by using the OFF/ON switch (2) on battery control panel.

C. Using with PAP device as a backup power supply



Step 1 – Connect the battery to the charger (see instructions on charging the battery).

Step 2 – Connect the battery to PAP device and turn battery ON (see instructions above on using with PAP device as portable battery)

2.6 PRODUCT SPECIFICATIONS: Pilot-12 Plus

- Model Name: Pilot-12 Plus
- Capacity: 98 Wh
- Cell Type: Industrial grade genuine rechargeable lithium ion cells manufactured by LG®
- Rated Output: DC 12 V, 6.67 A
- Life Span: Over 500 full discharge cycle
- Case: Aluminum
- Dimensions: 19x12x2 cm
- Weight: 1.8 lbs
- Power Gauge: 5 stage LED display power level indicator (includes charge and discharge state)
- Recharge time: 3 to 4 hours per battery

2.7 CAR CHARGER FOR PILOT-12 PLUS INSTRUCTIONS:

Plug End 1 of the Medistrom™ Car Charger into the 12 V car cigarette lighter socket, and the End 2 into the “CHARGE” jack of your Pilot-12 Plus CPAP Battery as shown on the diagram on page 18. The battery will charge in 3-4 hours.



SECTION 3 – USING CO-PILOT ADD-ON UNIT TO INCREASE THE RUN TIME OF PILOT-24 PLUS / PILOT-12 PLUS

Pilot-24 Plus and Pilot-12 Plus can be used with an add-on unit Co-Pilot-24 and Co-Pilot-12. Using Co-Pilot will increase the CPAP battery run times. Please refer to the diagram below in order to set up dual configuration. Co-Pilot can be used in dual configuration with Pilot Plus in order to serve as BOTH Backup and/or Portable CPAP Battery.



SECTION 4 - CARE INSTRUCTIONS: PILOT-24 PLUS / PILOT-12 PLUS

Do not expose the Pilot-12 Plus/Pilot-24 Plus to liquids of any kind.

Keep out of direct sunlight.

If your unit becomes soiled, disconnect from both the power source and the PAP device and wipe the exterior casing with a clean, dry cloth.

SECTION 5 - TRAVELLING WITH THE BATTERY: PILOT-24 PLUS / PILOT-12 PLUS

Prior to travel, please consult with your specific carrier to gain approval to take your Pilot-12 Plus/Pilot-24 Plus on board the aircraft.

SECTION 6 - WARRANTY PILOT-24 PLUS / PILOT-12 PLUS

Please contact your CPAP battery dealer for any warranty related issues.

Medistrom guarantees that Pilot-12 Plus/Pilot-24 Plus CPAP battery shall remain free from manufacturer defects for twelve months from the date of purchase.

This warranty is not transferrable and will only be available to the original purchaser.

This warranty does not cover physical damage resulting from improper usage.

Medistrom reserves the right to choose whether to repair or replace the product.

SECTION 7 – STORAGE AND DISPOSAL: PILOT-24 PLUS /

PILOT-12 PLUS

Pilot-12 Plus / Pilot-24 Plus must be fully charged before storage. Pilot-12 Plus/ Pilot-24 Plus must be fully recharged **every 6 months** thereafter.

Store the Pilot-12 Plus / Pilot-24 Plus in a cool, dark, well ventilated place with normal temperatures of **0 °C / 32 °F to 35 °C / 95 °F**.

CAUTION! Keep out of direct sunlight! The disposal of this unit should be carried out in accordance with applicable laws and regulations reflecting the purchaser's geographic location. For more information on where to recycle this product, please call 1-877-723-1297 or visit: www.call2recycle.org

SECTION 8 – WARNINGS AND SAFETY PRECAUTIONS:

PILOT-24 PLUS / PILOT-12 PLUS

- Please read this product user guide carefully before putting the equipment into operation for the first time. Observe the safety instructions.
- Do not expose the Pilot-12 Plus / Pilot-24 Plus to any hard, physical impact.
- Do not expose the Pilot-12 Plus / Pilot-24 Plus to water, rain or moisture of any kind.
- Do not expose the Pilot-12 Plus / Pilot-24 Plus to an open flame or extreme heat, including direct sunlight. Exposure to any of these may result in an explosion.
- Do not disassemble or attempt to repair the Pilot-12 Plus / Pilot-24 Plus or the included AC charger.
- Ensure the product is thoroughly inspected for any physical damage. If any damage is found, the equipment should not be used.
- The device complies with CE and CSA directives and standards for electrical safety and electromagnetic compatibility. Improper use or handling can, however, result in damage and/or injury.

- Any improper use or operation of the device, i.e., that is not consistent with the instructions, will result in forfeiture of all claims under the manufacturer's warranty.
- Prevent the risk of electric short circuit.
- If the battery pack becomes damaged, do not touch the battery leakage directly: electrolyte leakage can cause skin irritation. In case the electrolyte comes into contact with the eyes, rinse with water as soon as possible. Do not rub eyes. Seek medical attention as soon as possible.
- Danger of Explosion! Do not use this equipment in hazardous areas in which explosive materials are present.
- Do not operate the device if the housing or AC adapter is damaged. Immediately disconnect the damaged device from the power by pulling the plug.
- Do not expose the equipment to extreme temperatures, aggressive chemical vapors, moisture, shocks, vibration, or strong electromagnetic fields. Observe the conditions of operation described in the specifications.
- The operator shall be solely responsible for any modifications to the equipment and for connecting any cables or equipment not supplied by Medistrom.
- Do not allow liquids to enter the device.
- Keep out of reach of children.
- Do not put in microwave oven.
- Please recharge your battery pack every six months even when you do not use it for a prolonged period in order to ensure proper product performance.

Section 9: General Troubleshooting

LED indicator	Possible Cause	Solution
Normal Operation		
Four solid green LEDs	Greater than 90% capacity remaining	
Three solid green LEDs	65% - 90% capacity remaining	
Two solid green LEDs	40% - 65% capacity remaining	
One solid green LEDs	10% - 40% capacity remaining	
Green LEDs flashing	Battery is charging	
Error Codes		
Yellow and green LEDs alternate flashing	<ul style="list-style-type: none"> Battery has entered over-discharge protection to prevent damage to the cells. 	<ul style="list-style-type: none"> Contact Medistrom technical support
Yellow LED flashing (rapidly)	<ul style="list-style-type: none"> Incorrect A/C adapter being used Power source is damaged 	<ul style="list-style-type: none"> Pilot-24: use the A/C adapter provided with your ResMed S9 or ResMed AirSense 10 Pilot-12: use the A/C adapter that was included with the Pilot-12 Power strip or outlet wiring may be damaged. Plug A/C adapter directly into wall outlet or try using the battery with a different wall outlet.

Yellow LED flashing (slowly)	<ul style="list-style-type: none"> • The environmental temperature is too high for the battery to operate safely 	<ul style="list-style-type: none"> • Ensure that the battery is placed where there is no excess heat. Do not rest the battery on top of radiators or electronic devices that may emit heat. Do not attempt to use the battery in temperatures exceeding 40° C / 104° F
Yellow LED (alternates long and short flashing)	<ul style="list-style-type: none"> • Incorrect A/C adapter being used • PAP device connected to battery is incompatible 	<ul style="list-style-type: none"> • Pilot-24: use the A/C adapter provided with your ResMed S9 or ResMed AirSense 10 • Pilot-12: only use the A/C adapter that was included with the Pilot-12 • Ensure that the PAP device you are using is compatible with the Pilot-12 or Pilot-24 you are using
Four green LEDs (flashing together)	<ul style="list-style-type: none"> • Incorrect A/C adapter being used 	<ul style="list-style-type: none"> • Pilot-24: use the A/C adapter provided with your ResMed S9 or ResMed AirSense 10 • Pilot-12: only use the A/C adapter that was included with the Pilot-12
Yellow LED (two short flashes followed by one long flash)	<ul style="list-style-type: none"> • PAP device connected to battery is incompatible • DC output cable is damaged 	<ul style="list-style-type: none"> • Ensure that the PAP device you are using is compatible with the Pilot-12 or Pilot-24 you are using • Ensure that the cable connected the Pilot-12

or Pilot-24 to the PAP device is not damaged

Yellow LED (three short flashes)

- PAP device connected to battery is incompatible

- Ensure that the PAP device you are using is compatible with the Pilot-12 or Pilot-24 you are using

If errors persist after taking the recommended action contact Medstrom technical support toll-free at 1-888-407-4791 or via email at support@choiceonemedical.com. Do not open the device or attempt to service the device yourself.

