

# MedXP 400

Certified Medical Grade Battery

Designed to be the most flexible  
mobile power solution



**User Manual**



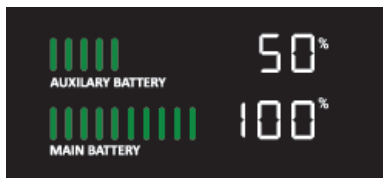
- Product: Rechargeable Li-ion Battery
- Model: MedXP-400
- Derivation Model: MedXP-400-BASE, MedXP-400-AUX
- Battery Cell Spec: 3.6V, 3350mAh, 432Whr (Total Power Combined)
- Charging Voltage/Current : 4.2V/ 3.4A max (per cell)
- Output Power: Max 180 Watt
- IEC 60601-1 (3.1 Edition) and UL Certified 62133 / TUV Certified IEC62133 for battery packs

## Overview

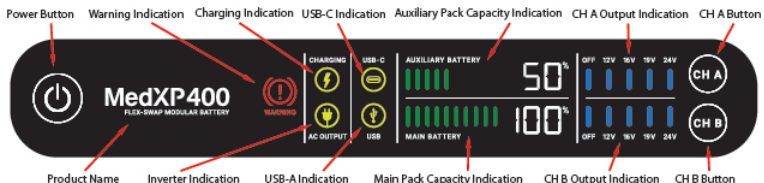
- The MedXP-400 includes a base unit or main battery pack, a removable auxiliary pack, 2 DC output cables, AC Adapter, and a bag of DC tips.
- When using both main and auxiliary batteries together, the auxiliary pack can be safely removed without disturbance to your device.
- The MedXP-400 battery is delivered at 30% capacity based on shipping regulations. Please fully charge before use.
- Please use and store the MedXP-400 in a cool, dry area.

## Charging

- To charge the MedXP-400, use only the AC adapter provided.
- The MedXP-400 can be fully charged in under 6 hours. However, charge time may increase if your device is being used while charging.
- During charging, the main battery pack will charge first and the auxiliary pack will charge second. During discharge, the auxiliary battery will be depleted first.
- A green LED bar will blink within the battery level bars to show main base battery charging or AUX battery charging.
- A charging icon will be lit on the face of the battery to indicate the battery is receiving power from the AC Adapter.

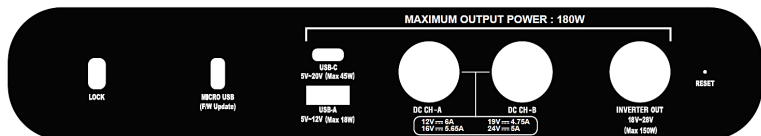


## LCD Display and Touch Panel



## Power On and Selecting/Changing the DC Voltage

1. Press the Power button for 2 seconds to turn on the MedXP-400.
  2. Press the CH A or CH B button for 3 seconds. Once the blue voltage indicator bar begins to blink, the voltage may be changed.
  3. Use the CH A or CH B button to select the desired voltage (12V, 16V, 19V, 24V), then hold down for 3 seconds to save. The indicator bar will stop blinking and the newly selected voltage will be saved.
- The voltage will automatically reset to “OFF” mode if a new voltage is not selected.
  - Once the new voltage is saved, it will remain the default setting when the MedXP-400 is powered off and on again.



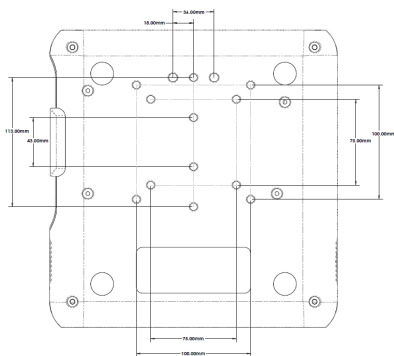
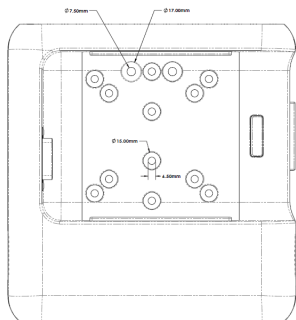
## Connecting Your Device

1. First select the voltage (See instructions above).
  2. Connect the interchangeable tip to the DC output cable. (See diagram) Be sure to select the correct size tip for your device. If you are unsure of which tip to use, contact your local dealer or the manufacturer for assistance.
  3. Align the red dots to connect the circular end of the DC output cable to the selected output port of the MedXP-400. (See diagram)
  4. Plug the interchangeable tip into the charge port of your device.
  5. Check your device to confirm it is being charged.
- If using an inverter, connect the inverter cable to the inverter output port of the MedXP-400. Turn on the inverter. The “AC output” icon will light up on the LCD display once the inverter is connected and turned on.



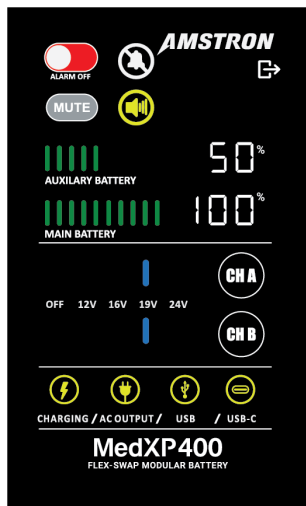
## Mounting the Battery

- The MedXP-400's Integrated Mounting Solution is a unique feature that allows the user to mount the unit directly onto a medical cart or other mobile workstation, eliminating the need to purchase a separate holster.
- Remove the AUX battery pack to reveal several hole patterns for mounting
- Ensure the head of the screw fits down into the hole cavity. Any exposure would hinder the AUX battery to slide properly back into place. (mounting screws are not provided)
- The MedXP-400 can be mounted in any orientation needed.
- The AUX battery handle can be removed for a space saving option.



## On-Screen Software

- Ask your dealer for the latest version of the On-Screen software file for your MedXP-400 battery System
- Install the .exe file on the computer you want to have On-Screen monitoring of the MedXP-400 battery system.
- Use a USB to Micro-USB cable (not supplied) to connect the computer to the Micro-USB port on the back of the battery.
- The On-Screen interface looks and acts like the battery interface for easy-to-read battery levels, DC output selections and system icons.
- The low battery Alarm feature can be turned ON or OFF by a slider bar. When ON, an alarm will sound when the total battery capacity reaches 10% and again at 5%. A mute button is provided to silence the alarm.



## Warning Light

The warning light will appear to indicate any of the following:



- Low capacity: Under 5%
- To recover, charge the MedXP-400 with the included AC adapter. Once capacity is restored, the light will turn off.
- Overvoltage protection: 29.5V
- Undervoltage protection: 17.0V
- High temperature protection: System 75°C , Cell pack 55°C
- Overpower protection: System 160W, Inverter 135W
- CH A&B output (12V @72w/ 16V @90W/ 19V@ 90W/ 24V @120W)

## DC Output Cutoff

The DC output will cut off once it has reached the following limits:

- Total output: 181W  
Once output exceeds 180W, it will shut down in this sequence: Inverter -> CH B -> CH A. To recover, turn the power off and on again.
- Inverter output: 151W  
To recover, turn the power off and on again.
- CH A & CH B: 12V@72W / 16V@90W / 19V@90W / 24V@120W  
Output will auto-recover once voltage is adjusted to a lower setting.



## Specifications

Output voltages	QC2.0 5V, 9V, 12V, 18W Max USB PD3.0 45W Max
Output Power	12V 72W, 16V 90W 19V 90W, 24V 120W Maximum output power : 180W
Capacity	Main base pack : 145Wh Auxiliary pack : 289Wh Total 434Wh
Dimension	10" Wide x 10.5" Deep x 2.75" High
Weight	Main base pack : 4.85 lbs Auxiliary pack : 3.95 lbs Total weight: 8.80 lbs
Display	WVA LCD Display.
Charging time	Under 6 hours
Origin	Republic of Korea

## Warranty

The MedXP-400 has a 3-year warranty from the date of purchase against defects in materials and workmanship. During this period, defects will be repaired or the product will be replaced without charge. This warranty does not cover damages caused by misuse, neglect, and normal wear and tear of the lithium-ion battery cells. If you have ques-tions or problems, please contact the dealer from whom the MedXP-400 was purchased. Under no circumstances will the manufacturer be liable for any of the following: loss of damage to programs, records, or data; loss or damage to computer or other devices; any other incidental or consequential damage caused by the user or the user's mishandling of this product.

## Caution

- LITHIUM-ION BATTERIES CAN BE DANGEROUS IF MISHANDLED.
- DISPOSE OF BATTERY PROPERLY. CONTACT YOUR LOCAL RECYCLING CENTER FOR INSTRUCTIONS.
- KEEP AWAY FROM CHILDREN.
- DO NOT DROP, PUNCTURE, IMMERSE IN WATER OR OTHER LIQUIDS.
- KEEP AWAY FROM DIRECT SUNLIGHT, FIRE OR HEAT.
- THE BATTERY USED IN THIS DEVICE MAY PRESENT A FIRE OR CHEMICAL BURN HAZARD IF MISHANDLED.
- DO NOT DISASSEMBLE, HEAT ABOVE 60°C(140°F), OR INCINERATE.
- USE SPECIFIED CHARGER ONLY.
- EXPLOSION MAY OCCUR IF DAMAGED.
- DO NOT SHORT-CIRCUIT.

## **Customer Service**

For problems or inquiries regarding this product, please contact the dealer from whom the MedXP-400 was purchased. Or you can contact the manufacturer directly at:

**Amstron Power Solution, Inc.**  
**28381 Constellation Road**  
**Valencia CA, 91355**

**[www.amstron.com](http://www.amstron.com)**  
**[support@amstron.com](mailto:support@amstron.com)**  
**818-504-1634**