



# Nymi Band 3.0 Charging Recommendations Guide

October 23, 2020

Version 1.4

## Table of Contents

Revision History	2
<b>Charging Overview</b>	<b>3</b>
Nymi Band Charging Requirements	3
Nymi Band Charging Cradle	3
Charging Overview	3
<b>Charging Cradle Mounting Options</b>	<b>4</b>
Unmounted	4
Mounted	4
Mounting Considerations	5
<b>Appendix: Charger Mounting Specification Guide</b>	<b>6</b>

## Revision History

Date	Version	Revision History
July 16, 2020	1.0	Initial Release.
Aug 11, 2020	1.1	Corrections
Aug 13, 2020	1.2	Updated images
Sept 18, 2020	1.3	Added units to appendix diagram
October 23, 2020	1.4	Added charging temperature range

# Charging Overview

## Nymi Band Charging Requirements

In order to charge a Nymi Band™ 3.0, the following are required:

- Nymi Band charging cradle (one per Nymi Band)
- USB-A charging port (one per Nymi Band) capable of 5V @ 150mA or greater

Additionally, in order to ensure your Nymi Band fully charges in a timely manner, charging must occur between 15°C and 30°C. Attempting to charge outside of this range may result in the Nymi Band only partially charging or not charging at all due to the internal battery protection.

## Nymi Band Charging Cradle

The charger for Nymi Band 3.0 is powered by a standard USB charging port. A red power indicator is always on when the charger is plugged in, letting you know it is ready to charge a Nymi Band. A blue indicator on the right side of the charger illuminates when the Nymi Band is properly seated and receiving power. The Nymi Band itself will also indicate it is properly seated on the charger by illuminating its screen and showing the state of charge.



Keyholes on the back of the charger allow for mounting to flat surfaces.





## Charging Overview

While a fully charged Nymi Band will typically last at least 3-days, it is recommended to store the Nymi Band on the charging cradle at the end of each shift to ensure that there will be sufficient charge the following day.

The Nymi Band is magnetically held on the charger and power is delivered by a number of charging pins.

If the Nymi Band is placed on the charging cradle in the incorrect orientation, the Nymi Band will not charge. Note that Nymi Band will not sit flush on the charging cradle, the blue indicator will not turn on and the screen of the Nymi Band will not light up.

When placed on the charging cradle, a Nymi Band takes 2 hours or less to fully charge. To determine the state of charge, simply wake the Nymi Band by pressing either button and observe how many bars appear on the battery icon. It is recommended that you wait until the battery icon displays two bars before using the Nymi Band to complete a 10-hour shift.



**Battery charge indication when off charger (left) and on charger (right)**

# Charging Cradle Mounting Options

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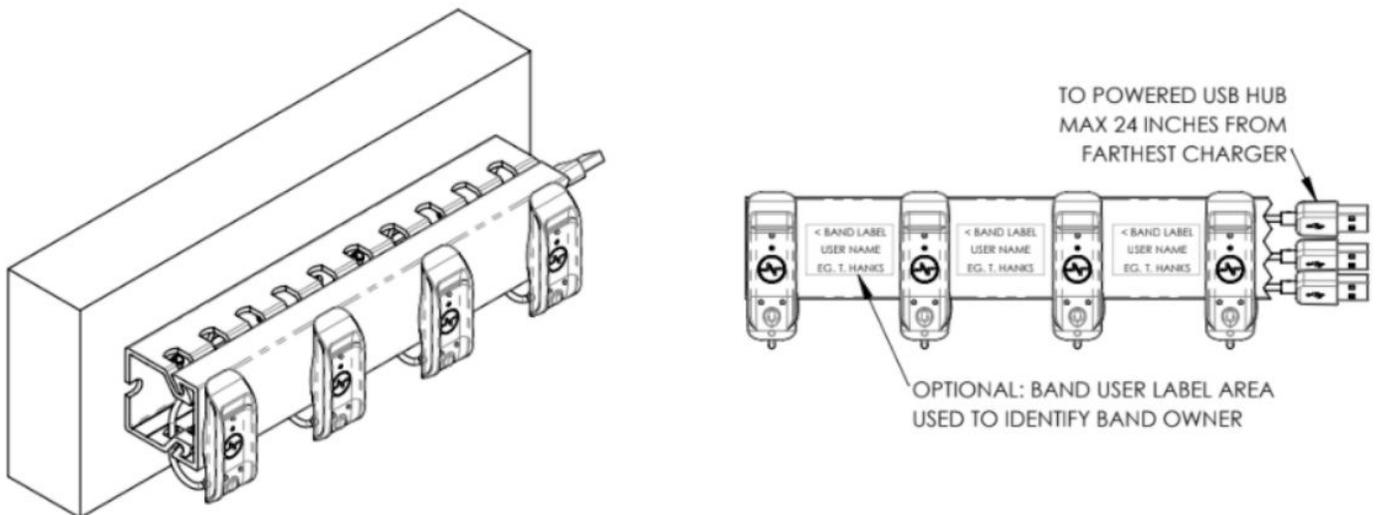
## Unmounted

The simplest way to charge a Nymi Band is to place it on a charging cradle and set it down on a flat surface with the buttons on the Nymi Band facing up. This orientation allows the user to see the charging indicator to ensure the Nymi Band is properly seated and is receiving a charge.



## Mounted

For more permanent installations, the Nymi Band charging cradle features two keyhole slots you can use to mount to a flat surface. The following figure gives an example how several Nymi Band charging cradles are mounted to a piece of slotted wire duct. For detailed instructions on how to fabricate this reference design, please contact your local Nymi representative to receive a copy of the “Bulk Charger Reference Design”.



An excerpt from the Bulk Charger Reference Design

## Mounting Considerations

The appendix provides a reference diagram with the basic dimensions you should consider when fabricating a mounting surface for the Nymi Band charging cradle. A summary list of considerations is as follows:



Placement: Mount the charging cradle in such a way that the charging indicator on the right side is visible and there is sufficient access to the buttons

Mounting screw spacing: Place mounting screws 17.5mm apart to line up with the charging cradle keyhole slots

Cradle spacing: If mounting several charging cradles, provide a minimum of 30mm of space between the cradles to ensure that users can access the buttons of the Nymi Band while on the charger

Cable run: If the USB charging port will be more than 60cm away from where the charging cradle will be mounted, use a standard USB-A male to USB-A female cable to extend the charging cable

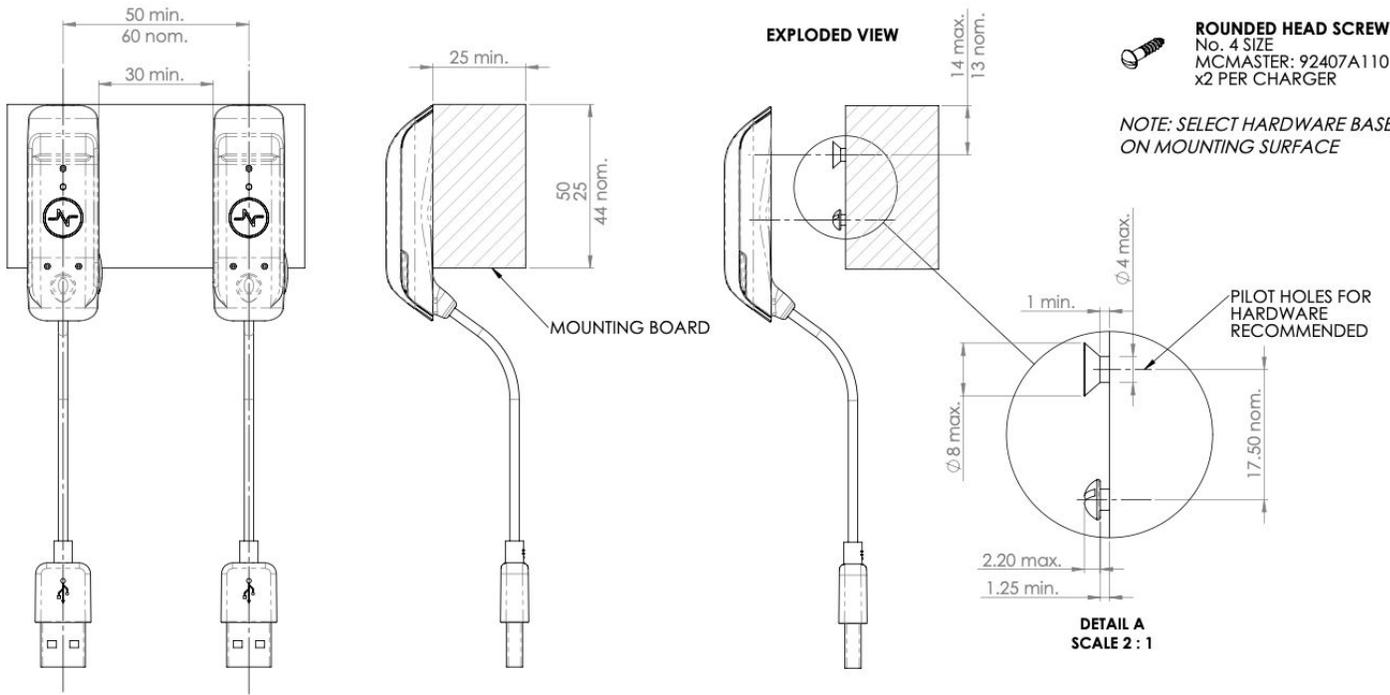
Mounting surface height: Ensure the mounting surface has a surface height between 25 - 50mm to ensure that the straps of the Nymi Band can straddle the surface

Mounting surface depth: Use a mounting surface that has a minimum depth of 25mm to ensure that the straps of the Nymi Band do not interfere with obstacles behind the mounting surface that could cause the Nymi Band to become dislodged

Labelling: Consider placing a label with the user's name next to the charging cradle to help users quickly find their Nymi Band

# Appendix: Charger Mounting Specification Guide

## CHARGER MOUNTING SPECIFICATION GUIDE



**NOTES:**

1. DIMENSIONS SPECIFIED AS **X min.** ARE **MINIMUM** DIMENSIONS
2. DIMENSIONS SPECIFIED AS **Y max.** ARE **MAXIMUM** DIMENSIONS
3. DIMENSIONS SPECIFIED AS **Z nom.** ARE **RECOMMENDED** (NOMINAL) DIMENSIONS

Note: All dimensions are in millimeters unless otherwise specified.



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Published in Canada.  
Nymi Inc.  
Toronto, Ontario  
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