



## User Manual and User Information Model VN-1820

Energous Corporation  
3590 North First Street  
Suite 210  
San Jose, CA 95134  
U.S.A.  
<http://www.energous.com>  
Tel: 408 963 0200

Copyright© 2022 Energous Corporation. Energous, the Energous Logo, WattUp®, and other designated brands included herein are trademarks of Energous in the United States and other countries. All other trademarks are the property of their respective owners.

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS. THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR ENERGOUS REPRESENTATIVE FOR A COPY.

### 1. Intended Use

1. The purpose of the VN-1820 Charger is to charge equipment outfitted with the proprietary Energous energy receiving circuits. The VN-1820 Charger can only be used in conjunction with devices that contain the receiving circuits for charging the native batteries of the equipment.
2. If a device that does not contain the Energous receiver circuits no charging will ensue and the VN-1820 Charger will not operate.
3. Equipment outfitted with inductive receiver circuits will not charge and the VN-1820 Charger will not operate.
4. VN-1820 will only operate once a receiver is placed in the charging area directly to the front of the charger.
5. Indoor operation only --not to be used in a wet area, metal surface, or outdoors.
6. Professional installation required.



## 2. User Operation

The VN-1820 does not contain a power switch. The VN-1820 requires professional installation which will be installed by using the following instructions. Place the stand on a flat surface. Insert mounting cleats into corresponding holes in the back of the device. The device is intended to operate only when correctly installed into the stand, do not use without the stand. Ensure power port is at the bottom of the device once mounted. Connect the Jack port cable end to the VN-1820 Charger and the AC power cable end to the wall outlet. When not charging, the VN-1820 is in standby mode.

Place the equipment to be charged in front of the VN-1820 charger. The equipment will commence charging within a few seconds. Consult the equipment's user manual for the time duration and procedures for charging.

## 3. Radio Characteristics:

The VN-1820 transmitter nominal frequency is: 917.5MHz

The VN-1820 transmitter conducted average output power is: 41.76dBm

The BLE transmitter (VN-1820) operating frequency: 2402 – 2480MHz

The BLE transmitter (VN-1820) max peak output power: -2.19dBm

## 4. Jack Port

Insert the designated cable at the Jack port cable end to the VN-1820 Charger and the AC power cable end to the wall outlet.

## 5. Packaging contents

VN-1820 WattUp WPT Charger with stand

User Manual and User Information



## 6. FCC Regulatory Information

FCC ID: 2ADNG-VN1820, Model: VN-1820

This device complies with Part 18 of the FCC Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the equipment being interfered with.
- Increase the separation between the charger and the equipment subject to interference.
- Connect the equipment into an outlet on a circuit different from that to which the charger is connected.
- Consult the dealer or an experienced radio/TV/electronics technician for help.

**CAUTION:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## 7. RF Exposure Notice

The VN-1820 is designed for desktop / tabletop use and should be operated to provide a separation distance of at least 35cm or more from people during use. The device complies with FCC's RF exposure rules at a distance of 10cm from the sides and top of the device. The charger employs proximity sensing and will automatically shut off when persons are closer than 35cm to the front of the charger. There are no user adjustments and charging commences only when the proximity sensors permit commencement of power transfer.



## 8. Supplier's Declaration of Conformity

Model: VN-1820, Brand Name: Energous

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party in the USA:  
Energous Corporation  
3590 North First St, Suite 210  
San Jose, CA 95134  
United States of America