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BN-LINK BNQ-60/U40

BN-LINK LCD Plug-in Power Energy Meter User Manual

Brand: BN-LINK | **Model:** BNQ-60/U40

1. INTRODUCTION

The BN-LINK LCD Plug-in Power Energy Meter is designed to help you monitor the electricity consumption and associated costs of your household appliances. This device provides real-time data on various electrical parameters, enabling you to identify energy-wasting appliances and make informed decisions to save energy and reduce electricity bills.





Image: Front view of the BN-LINK LCD Plug-in Power Energy Meter, showing the LCD display and control buttons.

Save Money Save Energy

Use the Cost Function to Monitor Your Electricity Bills



Image: The energy meter plugged into a wall outlet, monitoring a coffee machine on a kitchen counter.

Living Room



Kitchen



Bedroom



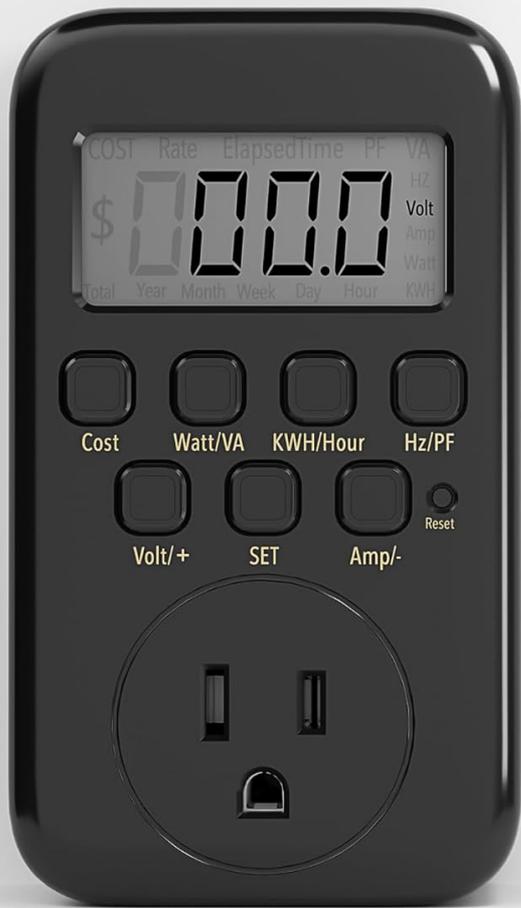
Laundry Room



Image: The energy meter shown in different household environments, including a living room, kitchen, bedroom, and laundry room, demonstrating its versatile application.

2. KEY FEATURES

- **Energy & Cost Saving:** Automatically calculates electricity cost based on user-set unit price. View expenses by hour, day, week, month, or year.
- **Upgraded Large LCD Display:** Provides clear and easy-to-read monitoring of power consumption and costs.
- **9 Display Modes:** Offers comprehensive data including Watt/VA, Kilowatt and Elapsed Time (KWh/Hour), Power Frequency and Factor (Hz/PF), Volt, Amp, and Cost.
- **Data Memory:** Built-in battery backup retains readings even when the meter is unplugged.
- **Reset Function:** A dedicated button for clearing all cumulative data.
- **Compact Design:** Designed to be unobtrusive when plugged into an outlet.



- ✓ Large LCD Display
- ✓ Monitor Your Bills
- ✓ 9 Display Modes
- ✓ Battery Backup

Image: The energy meter with a list of its main features: Large LCD Display, Monitor Your Bills, 9 Display Modes, and Battery Backup.

3. SETUP

1. **Unpacking:** Carefully remove the energy meter from its packaging.
2. **Initial Power-Up:** Plug the BN-LINK energy meter directly into a standard 125VAC, 60Hz wall socket. The LCD display should illuminate.
3. **Connect Appliance:** Plug the appliance you wish to monitor into the outlet on the front of the energy meter.
4. **Battery Backup:** The meter has a built-in NiMH battery for data retention. It will charge automatically when plugged in.



Image: The energy meter plugged into a standard wall outlet, ready for use.

4. OPERATING INSTRUCTIONS

4.1 Setting Unit Price (Cost)

1. Press the **COST** button to enter the cost setting mode.
2. Use the **VOLT/+** and **AMP/-** buttons to adjust the digit.
3. Press **SET** to move to the next digit.
4. Once the desired unit price is set, press **SET** again to confirm and exit the setting mode.

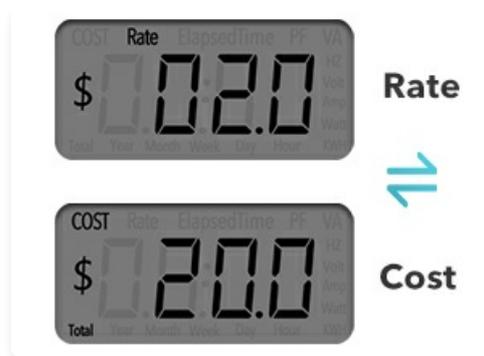


Image: A close-up of the meter's display, illustrating the transition from setting the electricity rate to viewing the total cost.

4.2 Display Modes

The meter features 9 distinct display modes, accessible by pressing the corresponding buttons:

- **Cost:** Displays the total accumulated electricity cost.
- **Watt/VA:** Shows real power (Watts) and apparent power (VA).
- **KWH/Hour:** Displays total kilowatt-hours consumed and elapsed time.
- **Hz/PF:** Shows power frequency (Hz) and power factor (PF).
- **Volt/+:** Displays the current voltage.
- **Amp/-:** Displays the current amperage.

9 Display Modes



Voltage(Volt)



Power Factor(PF)



Theoretical Power (VA)



Amp



Power (Watt)



Power Frequency (HZ)



Elapsed Time (Hour)



Kilowatt(KWH)

Image: A visual representation of the 9 different display modes available on the energy meter, including Voltage, Power Factor, Theoretical Power, Amp, Power (Watt), Power Frequency, Elapsed Time, and Kilowatt (KWh).

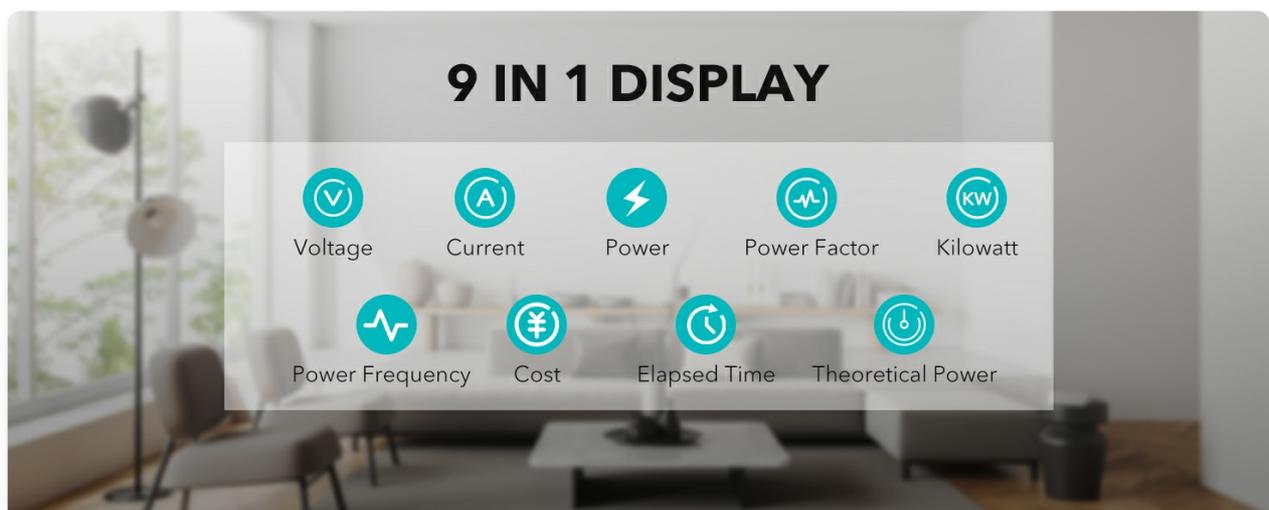


Image: Icons representing the 9-in-1 display functions: Voltage, Current, Power, Power Factor, Kilowatt, Power Frequency, Cost, Elapsed Time, and Theoretical Power.

4.3 Resetting Data

To clear all cumulative data (cost, KWh, elapsed time), press the **Reset** button located on the right side of the device using a small pointed object (e.g., a paperclip).

5. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or immerse in water.
- **Storage:** Store the meter in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery:** The internal battery is for data retention and does not require user replacement.

6. TROUBLESHOOTING

- **Display Not Working:** Ensure the meter is securely plugged into a live outlet. If the issue persists, try plugging it into a different outlet.
- **Incorrect Readings:** Verify that the appliance is properly connected to the meter. Ensure the unit price is set correctly if cost calculation is inaccurate.
- **Data Loss:** While the meter has a battery backup, prolonged storage without power or extreme conditions might affect data retention. Use the reset button to clear any corrupted data.
- **Overload Indication:** If the connected appliance exceeds the meter's maximum capacity (15A, 1875W), an overload warning may appear. Disconnect the appliance immediately to prevent damage.



Image: A close-up of the meter's display showing an alert icon, indicating a potential overload condition.

7. SPECIFICATIONS

Parameter	Value
Rated Voltage	125VAC
Frequency	60Hz

Maximum Current	15A
Maximum Wattage	1875W (resistance and tungsten)
Horsepower	1/2HP
Instant Active Power Display Range	0.5W-1875W
Unit Cost Range	0.01-99.99
Item Weight	4.5 ounces
Product Dimensions	2.68 x 1.47 x 4.72 inches
Display Style	LCD
Battery Type	NiMH (internal, for data memory)



Image: The energy meter with its dimensions (4.72" height, 2.68" width, 1.47" depth) clearly marked.

8. WARRANTY AND SUPPORT

BN-LINK products are designed for reliability and performance. For any questions, technical support, or warranty claims, please refer to the official BN-LINK website or contact their customer service directly. You can also refer to the official user manual PDF for more detailed information [Download User Manual \(PDF\)](#). Visit the BN-LINK Store for more products and information: [BN-LINK Store](#)

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