



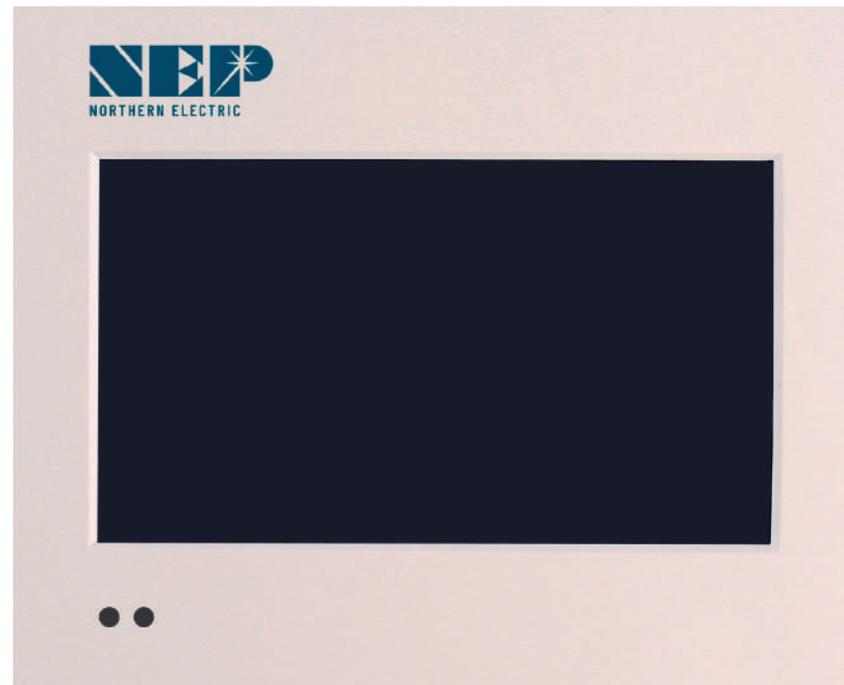
# QUICK INSTALLATION GUIDE

## BDG-256 GATEWAY

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First Street, Suite 200,  
San Jose, CA 95131  
**TEL:** +1 888-598-9901

● **Japón** Dirección: 812-0011  
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Rd Tsingtao Export Processing  
Zone, Tsingtao, China 266113  
**TEL:** +86 532 87963900  
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 **Email:** [info@northernep.com](mailto:info@northernep.com)

 **es-la.northernep.com**



## CONNECT TO POWER GRID (BDG-256)

Plug the AC power cord into a dedicated power outlet.  
Once connected, the gateway will take several minutes to boot up.

- 1 BDG-256 works on voltages between 100Vac - 240Vac.
- 2 Install the gateway on a dedicated outlet as close to the solar-fed circuit breaker as possible.
- 3 Do not plug the gateway into a power strip, GFDI outlet or through an ELCB.
- 4 For split-phase power grid (U.S., Canada, Mexico, Japan, Philippine), we recommend using NEMA 6-15 240V power outlet.



**NEMA 6-15 OUTLET**

## CONNECT TO POWER GRID (BDG-256P3)

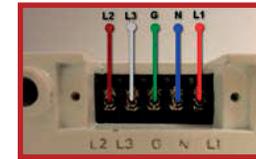
BDG-256P3 connects to a 3-phase power grid directly

BDG-256P3-NA



U.S., Japan, Canada  
Mexico, Philippine

BDG-256P3-AU



Australia  
New Zealand

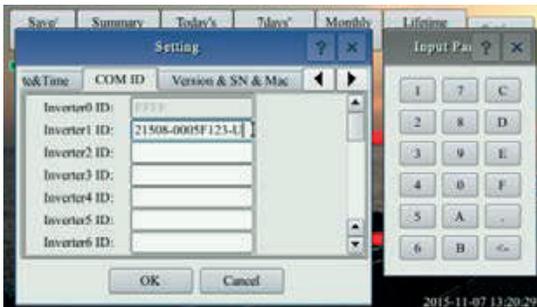
BDG-256P3-EU



Europe

## INPUT MICRO INVERTER SERIAL NUMBER

Through gateway touch screen.



## THROUGH BUILT-IN WEB PAGE

(e.g. <http://10.208.32.52/module>)  
10.208.32.52 is the gateway IP at the bottom of the touch screen

### Inverter COM-ID Administration

(e.g. 21508-0005F123-U, input the whole string or "0005F123" or "F123")

Inverter	COM-ID	phase
Inverter1:	0001AA04	A <input checked="" type="checkbox"/>
Inverter2:	10001002	A <input checked="" type="checkbox"/>
Inverter3:	10001003	A <input checked="" type="checkbox"/>
Inverter4:	10001004	A <input checked="" type="checkbox"/>
Inverter5:	10001005	A <input checked="" type="checkbox"/>
Inverter6:	10001006	A <input checked="" type="checkbox"/>
Inverter7:	10001007	A <input checked="" type="checkbox"/>
Inverter8:	10000135	A <input checked="" type="checkbox"/>
Inverter9:	10009D11	A <input checked="" type="checkbox"/>

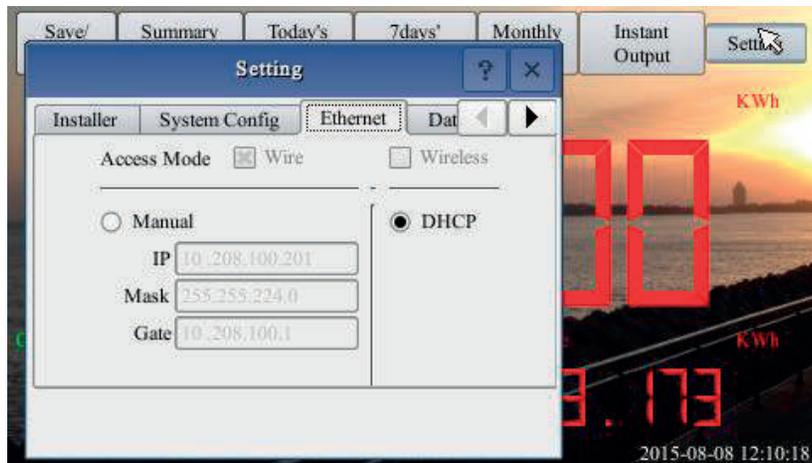


**Note:** Handheld barcode scanner is a very helpful tool in inputting the inverter SN.

**S/N format:** (e.g. 21508-3005F121-U, input the whole string "21508-3005F121-U" or "3005F121")  
**Phase assignment:** A - (L1-L3 or L1-N), B - (L2-L3 or L2-N), C - (L1-L2 or L3-N) (U.S or Europe/Australia)

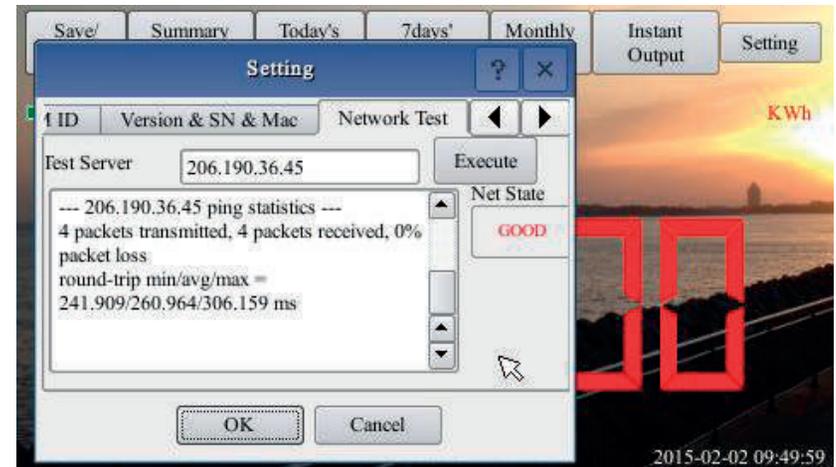
## CONNECT TO INTERNET

**BDG-256 can be connected to internet using a cable. "DHCP" is the default option and most commonly used.**



## TEST NETWORK CONNECTION

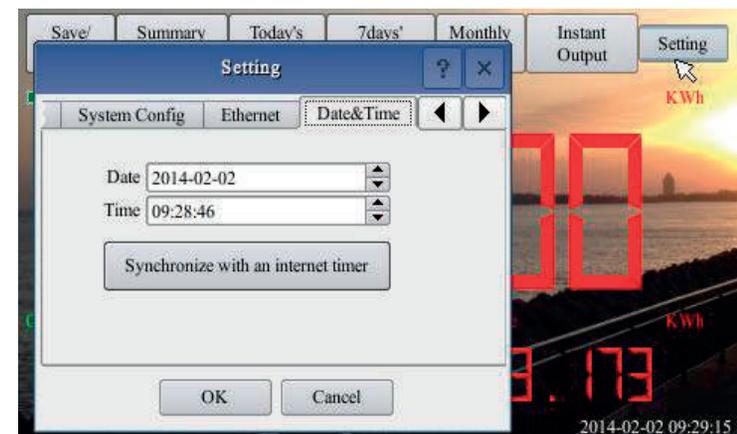
**Navigate through "Setting" to "Network Test", and then click on "Execute". If the "Net State" shows Good, then the gateway has connected to internet.**



**Refer to "Wi-Fi Configuration Guide" for setting up Wi-Fi**



## SET DATE/TIME



# NEPVIEWER REMOTE MONITORING

<http://user.nepviewer.com/>  
Follow the instructions and fill in information



**NOTE:** NEPVIEWER supports IE 9.0 or later, Firefox, Chrome, Apple iOS and Android web browsers.

## ADD PV SITE INFORMATION

Each PV site requires two registered email addresses: end user and installer

\* User Email

\* Country\_Name

\* Name of Your Plant

\* Latitude

\* Longitude

\* Timezone

\* Temperature Unit

\* Power of Plant (kW)

\* Currency Unit  Local\_e /1 kWh

Module Manufacture & Type

\* Installer Email

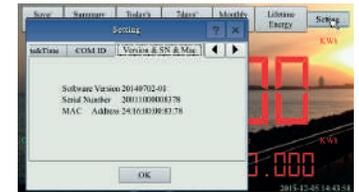
## REGISTER A GATEWAY

Add BDG-256 gateway SN in the V site information

Preview

Gateway S/N

BDG-256 gateway SN can be found on touch screen Setting/Version & SN & Mac



## REGISTER USER ACCOUNT

UserType  End User  Installer

Email

Verification code sent to you by email

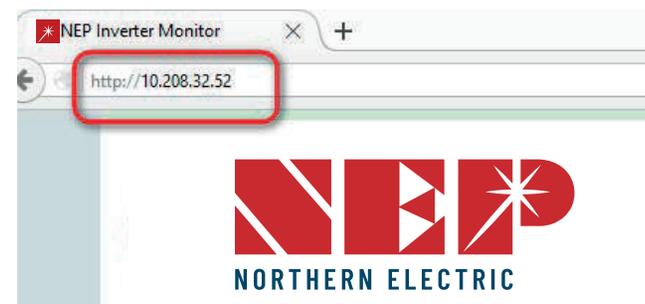
Verification code is sent to the email address registered.

# MICROVIEWER LOCAL MONITORING

BDG-256 can be monitored by a smart device connected to the same router



Gateway IP address



**NOTE:** MICROVIEWER local monitoring uses BDG-256 IP address as the link to an internal webpage.

# WI-FI CONFIGURATION GUIDE

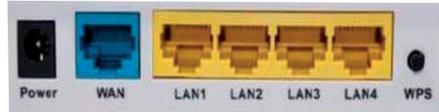
## Method A: By Routers Support WPS

**Step-1:** Plug the wireless adapter to BDG-256 gateway, and wait for several seconds.



- Wireless
- Adapter

**Step-2:** Press the WPS button on the router for 2 seconds, and for most routers, the WPS button would flash at this point.



**Step-3:** Within 2 minutes, return to the BDG-256 gateway, click on Setting/Ethernet, and press "WPS" (the red button). If the gateway reports the WPS setup is successful, the IP address on the gateway screen will be updated instead of 0.0.0.0 within 5 minutes.



## Method B: By Routers Do Not Support WPS

**Step-1:** Connect the BDG gateway to a router with a cable, and a few seconds later, an IP address will appear at the bottom of the BDG-256 screen;

**Step-2:** Log on to the webpage: [http://BDG\\_IP/wifi](http://BDG_IP/wifi) (BDG-IP refers to the IP shown at the bottom of BDG-256 screen, e.g. 10.208.32.52).

**Step-3:** Set Wi-Fi parameters.

### Enter the password "gateway"

#### Wireless Network Setup

Home Change Password Exit

Setup Password

PASSWORD

Next

### Set WLAN parameters and save your settings

#### Wireless Network Setup

Home Change Password Exit

WLAN Settings:

SSID: Network: 1000 1

Security Type: WPA WPA2

Password: \*\*\*\*\*

WPS: YES

IP Address:

Save

## Method C: By Smart Mobile Devices

**Step-1:** On an iPhone, click on Settings/General/About. Input name "MI Installer"

**Step-2:** Turn on "Personal Hotspot", and input Wi-Fi Password "my-gateway". This password is for other devices such as the BDG-256 gateway to connect to this mobile device.

**Step-3:** On the BDG-256 gateway, click on Setting/Ethernet, and choose "Connect to Mobile" or "Link to Mobile" (the green button).

**Step-4:** If the connection has been set, a flashing banner "Personal Hotspot: 1 Connection" will appear at the top of the iPhone screen.

**Step-5:** Continue from Step-3 of Method B.

**Step-6:** After using the hot-spot communication, Wi-Fi setup can be restored, if the Wi-Fi configuration in BDG-256 gateway is not changed by hot-spot link. First hit on the button "Disconnect from Mobile" (see Step-3), and then reboot the gateway, then the Wi-Fi connection will be restored.



#### NOTE:

1. set the name of the hotspot link as "MI Installer"
2. set the password of the hotspot link as "my-gateway"

**SSID:** The name of the home wireless network.

**Security type:** The wireless adapter supports several security protocols. Please refer to the wireless router user's manual for suitable type (default one works for most routers).

**Password:** The password for home wireless network.

**DHCP:** If yes, the wireless router will assign an IP to the gateway. This is most commonly used (no need to change unless for advanced users).

**IP:** If DHCP is set to "NO", users could fix an IP to the gateway. This function is only for advanced users, who should be responsible for confliction with other network devices if this IP address is not set properly.

**Step-4:** plug in the wireless adapter, and then reboot gateway.



If Wi-Fi is connected, a signal strength bar at the left upper corner and an IP address at the bottom should be notified.

# WI-FI CONFIGURATION GUIDE

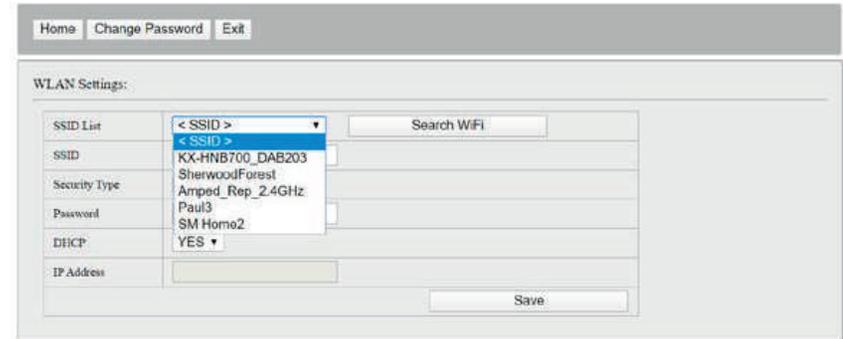
## Method D: Using AP (Access Point) mode

**Step-1:** Click on the AP button on the BDG-256 gateway and follow the instructions to reboot the gateway. Note that after reboot the IP address at the bottom of the gateway is 192.168.99.1



**Note:** This method only applies to BDG-256 gateways with firmware version “20170701-01” or later, and with the “TP-LINK” WiFi dongle shipped inside the BDG-256 box.

## Wireless Network Setup



**SSID:** The name of the home wireless network.

**Security type:** The wireless adapter supports several security protocols. Please refer to the wireless router user’s manual for suitable type (default one works for most routers).

**Password:** The password for home wireless network.

**DHCP:** If yes, the wireless router will assign an IP to the gateway. This is most commonly used (no need to change unless for advanced users).

**IP:** If DHCP is set to “NO”, users could fix an IP to the gateway. This function is only for advanced users, who should be responsible for confliction with other network devices if this IP address is not set properly.

**Step-5:** Click on Save. Uncheck AP on the BDG-256 gateway touch screen and then reboot the gateway following instructions.

**If Wi-Fi is connected, a signal strength bar at the left upper corner and an IP address at the bottom should be notified.**

NEP-0001100000003  
No Internet, secured  
[Properties](#)

**Step-2:** Search for a WiFi network named NEP-xxxxxxxxxxxxx (xxxxxxxxxxxxx is the gateway SN) on a phone or computer, and link the phone or computer to this WiFi network, the password is 12345678

**Step-3:** Log on to the webpage: <http://192.168.99.1/wifi> Enter password gateway.

**Step-4:** The pull down menu SSID List shows all available WiFi networks. Click on Search WiFi may rescan the available WiFi networks. If the WiFi network is “hidden” and does not show in the list, the network name can also be input manually on the line of SSID.