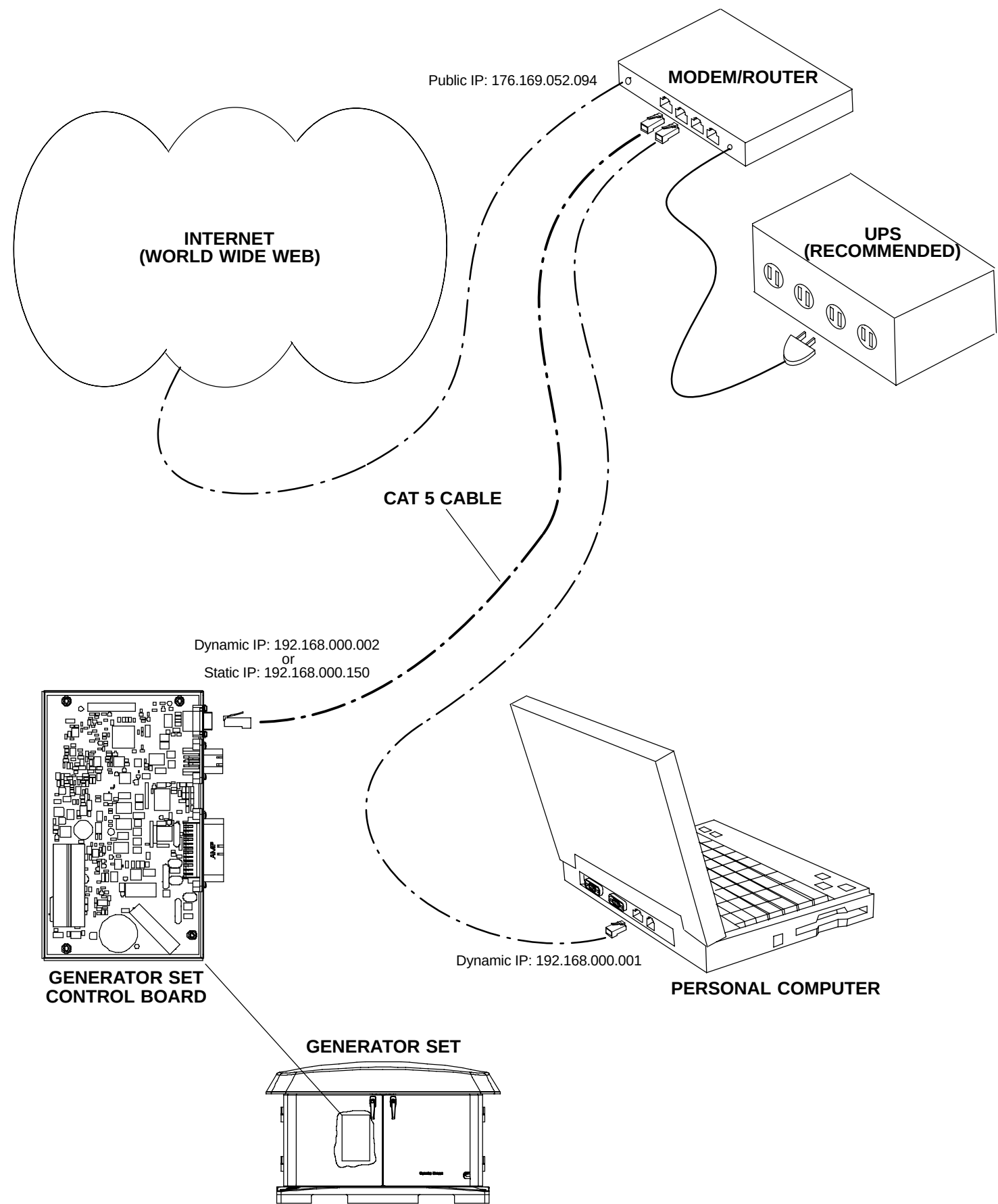


CUMMINS ONAN MODEL RS12000 GENERATOR SET NETWORK SETUP GUIDE



Setting up In-Home Computer Access to the Generator Set

1. Connect a Cat 5 cable from the generator set control board to a modem/router that has enough ports to connect the generator set to a computer.
2. Write down the IP Address shown on the Network Setup screen (Figure 1) on the generator set's in-home Operator Panel. (Note: Leave DHCP on.)
3. Type the IP address in the address bar of the web browser of a computer established on the same in-home network as the generator set. The computer's web browser will display the generator set's web page (Figure 2).

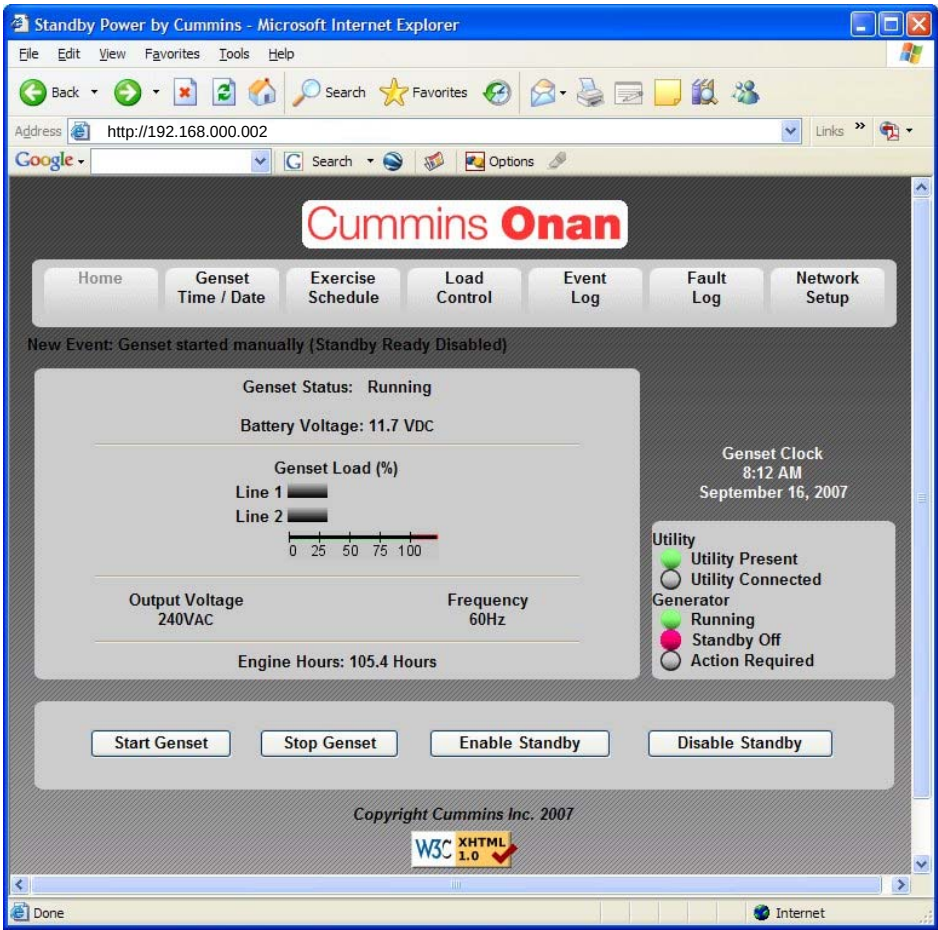


Figure 2. Generator Set Home Page

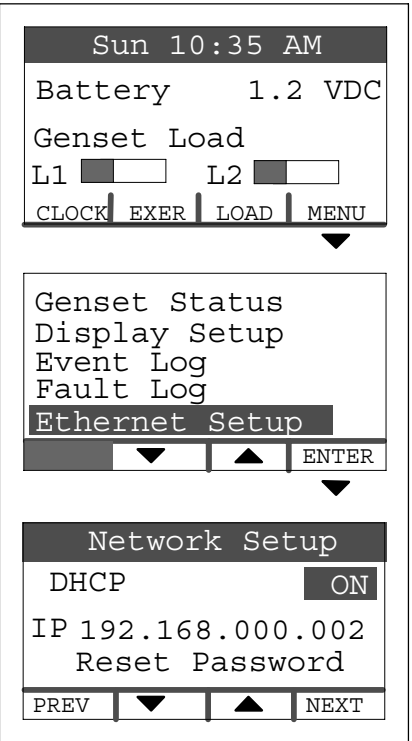


Figure 1. Network Setup Screen on In-Home Operator Panel

CUMMINS ONAN MODEL RS12000 GENERATOR SET NETWORK SETUP GUIDE

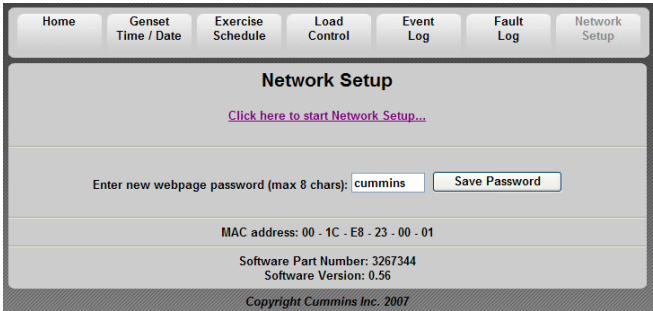


Figure 3. Network Setup Screen

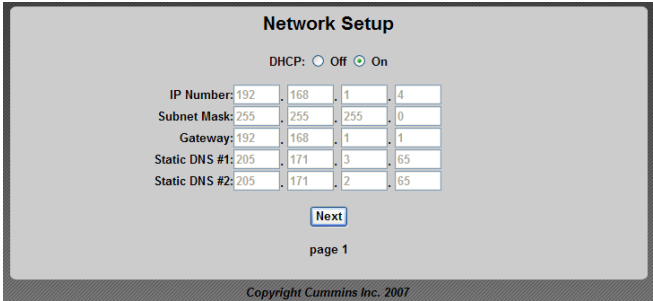


Figure 4. Network Setup (Page 1)

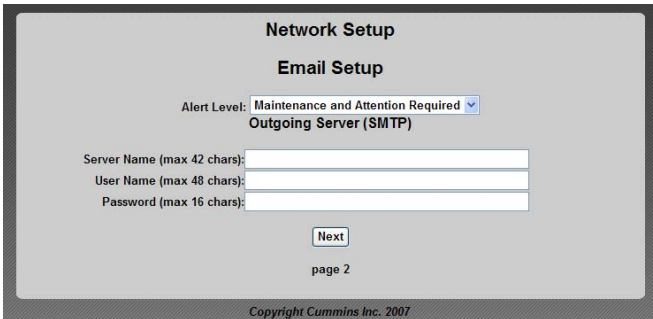


Figure 5. Email Setup Screen (Page 2)

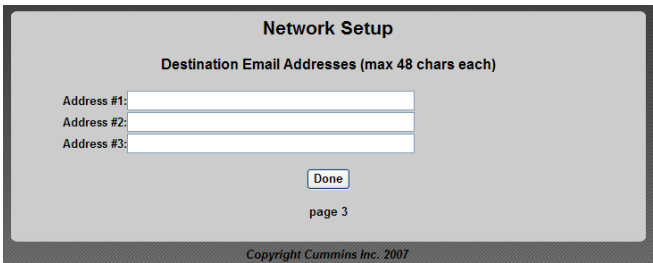


Figure 6. Email Addresses (Page 3)

Setting up Internet Access to the Generator Set

1. Have a public IP address established for the in-home computer network. Typically, it will be necessary to contact the customer's ISP (Internet Service Provider). Note: The ISP might take several days to establish the IP address.
2. Set up in-home computer access to the generator set. See Page 1.
3. Click **Network Setup** on the home page (Figure 2, Page 1).
4. Change the password and click **Save Password** (Figure 3)¹.
5. Click **Click here to start Network Setup** (Figure 3).
6. Click **Off** to turn off generator set **DHCP** (Figure 4).
7. In the **IP Number** fields enter a unique in-home network address for the generator set (the 192.168.000.150 in this example is not likely to have been assigned to any other device.)
8. The **Subnet Mask** and **Gateway** numbers establish the connections between the modem/router and generator set and do not need to be changed.
9. Press **Next** on the subsequent screens to get to page 3 of the setup screens or continue by setting up the email alerts.
10. Press **Done** to complete set up and save the settings. (Note: The web page will eventually time out unless the new IP address is entered.)
11. Follow the modem/router setup instructions to forward port 80 to the IP Address entered in Step 7. Typically, this is done on a Port Forwarding or Virtual Server setup screen. (Note: To maintain connections to all devices connected to the modem/router, do not turn off modem/router DHCP.)
12. To access the generator set's web page on any computer or wireless device not connected to the same modem/router as the generator set, type in the customer's public IP Address (179.168.052.094 in this example)².
13. To access the generator set's web page on any computer or wireless device connected to the same modem/router as the generator set, type in the unique in-home network address of the generator set (192.168.000.150 in this example).

Setting up Email Alerts from the Generator Set

1. Set up in-home computer access to the generator set. See Page 1.
2. Click **Network Setup** on the home page (Figure 2, Page 1).
3. Continue to the **Email Setup** screen (Figure 5).
4. Select the level alerts you would like to receive.
5. Enter your email **Server Name**, **User Name** and **Password**. Typically, it will be necessary to contact the customer's email service provider.
6. Continue to the **Destination Email Addresses** screen (Figure 6).
7. Enter up to 3 different email addresses to receive generator set alerts.
8. Press **Done**. (Note: The web page will eventually time out if a new IP address was entered in Step 7 while setting up Internet access.)

Help Hotline

1-800-888-6626 option 1

Available Monday-Friday 9-5 CST

1 – If you can't remember your password, reset it to "cummins" by selecting **Reset Password** on the Network Setup screen on the in-home Operator Panel and pressing the up or down arrow (Figure 1).

2 – The customer's public IP address must be a static IP address. If the customer's public IP address is dynamic, the customer must either obtain a static IP address from their service provider or set up a domain name that manages the dynamic IP address.

FREQUENTLY ASKED QUESTIONS

Question: Do I need another router?

Answer: Yes, a router or switch is required to allow for the connection of more than one device (computer, generator set, etc.) with each other and the Internet. Typically, your Internet modem also serves as a router. If you have an available ethernet connection on your router-enabled modem, you may not need to add an additional router.

Question: Do I need another modem?

Answer: A modem is required if you want to utilize the email and remote Internet access features of the generator set. If you already have an Internet connection, you have a modem. Only one modem is required.

Question: What is an IP address?

Answer: An IP address, or Internet Protocol address, is a unique address that devices such as a computer or your home generator set use to communicate with each other, both on your in-home network (LAN network) or with the World Wide Web.

Question: What is the difference between Static and Dynamic IP addresses?

Answer: On your in-home network, the router (with DHCP enabled) will assign a dynamic IP address to all devices (computer, home generator set, etc.) connected to the router. As devices are added and removed from the router, the devices are automatically updated with new IP addresses. This means that your computer and generator set IP addresses will not always be the same unless static IP addresses are assigned. A static IP address is a unique address that is permanently assigned to a device. On the World Wide Web, your typical ISP (internet service provider) assigns a dynamic IP address to your Internet connection. This is the IP address you type into your Internet browser to access your generator set from the World Wide Web. A static IP address is required for you to establish a constant address you can always access from the World Wide Web. Contact your ISP to set up a static IP address for your Internet connection.

Question: What is DHCP?

Answer: DHCP, or Dynamic Host Configuration Protocol, automatically assigns IP addresses, subnetmasks, and gateways to devices, allowing them to communicate with each other. Your router and generator set are equipped with DHCP. Default is for DHCP to be on.

Question: Why do I need a static IP address?

Answer: As discussed in the question about "differences between Static and Dynamic IP addresses", this is required for your generator to access the World Wide Web.

Question: What is a UPS device and why is it recommended?

Answer: A UPS (Uninterruptible Power Supply) device is battery backup to keep devices such as computers and modems powered during short-term power outages. We recommend that the modem/router be powered through a UPS device to ensure that your generator set is able to send emails and be remotely accessed at all times. For example, if your generator set shuts down during a utility power outage, the generator set can still send you an email letting you know that the power has failed and that the generator set shut down.

Question: When do I need to use a Static IP address?

Answer: Static IP addresses are required if you plan to access your generator set remotely via the Internet.

Question: I used the IP addresses shown on the front of this guide, but why was I not able to access the generator set?

Answer: The IP addresses shown in this guide are only examples and are not likely to be the ones that will work on your network setup.

Question: The IP address consists of four numbers ranging from 0 to 255 which are separated by dots; 179.168.052.094, for example. Are leading zeros necessary?

Answer: No, the IP address, 192.168.0.1, for example, is equivalent to 192.168.000.001. The address can be entered either way.

Question: How do I get my IP number, Subnet Mask, and Gateway?

Answer: On a PC: 1) disable the PC's wireless function, 2) establish an ethernet connection between the computer and generator set via a common modem, 3) on the computer, Click Start>Run, 4) on the run menu that appears type "**cmd**" and click ok, 5) type "**ipconfig**" on the DOS window that appears.

Question: Why do I need two IP addresses to access my generator set?

Answer: You can access your generator set from two networks, your in-home or local network, and from the World Wide Web, thus requiring two addresses. Your local IP address is different from your World Wide Web IP address. From your in-home network you use the generator set's Static IP address. From the World Wide Web you first need to access your modem, which is accomplished by typing in the Static IP address of your Internet connection. Your modem will then automatically forward you to your generator set on the local network.