MidNite Power Installation Tips
Overview of the App and Service Portal

There are three ways to monitor and program the inverter

1. **Midnite Pro App** locally
   - Bluetooth connection to inverter
   - Search for the Midnite Pro app on the apple app store or google play.
   - App can run on computers (iOS), tablets, or phones.
   - Bluetooth is known to not work correctly on older Samsung/android devices

2. **Midnite Pro App** remotely
   - Inverter must be connected to wifi or LAN
   - Uses same app as above
   - Tablet/phone requires data connection (cell/wifi)

3. **Service Portal** remotely
   - Inverter must be connected to wifi or LAN
   - accessible via any web browser

All three options offer most of the same functionality, with the following exceptions:

- To connect the inverter to wifi and set the time/date, you must use the app via bluetooth
- To create an end user account and register an inverter, you must either be on the app remotely or on the service portal.
- To upgrade firmware, you must use the service portal
- To download data files from the inverter, you must use the service portal

Both the app and Portal have an *end user* and an *installer* level

- For the app via bluetooth, the initial login is always as an *end user*, To access the installer level click the gear icon in the top right and enter installer level password *superadmin*.
- For the app, remotely, log in with either an installer account or an end user account. Username and password are both case sensitive.
- Installers get an installer level account from your distributor.
- Owners get an end user level account from their installer.
- Account username and password work for both the app for remote logins, and for the portal.
  - Installers log in to the portal at service.midnitepower.com
  - End users log in to the portal at view.midnitepower.com
- Ends users on the app or portal can view data but have limited ability to adjust inverter settings.
  - Can set up wifi, charging from grid, time based control, smartload setpoints, reserve battery capacity on grid. But not most other setpoints.

All inverters are tied to an end user account.

- **To make an end user account**
  1. To create and end user, you must log in to the app via your installer account.
  2. Internet access to your phone/tablet is required for this.
  3. When you log into app, you will see three options.
     1. Local access to inverters via bluetooth,
     2. Create an end user
     3. A list of end users/inverters already under your installer account.
     4. Bug warning – if you inadvertently click on “create an end user” and don’t follow through, it will lock the app and not let you cancel. It will need to be uninstalled and reinstalled before you can do anything else.

  4. Create an End User
     1. Enter end user name
     2. Enter customers email
     3. enter the time zone
     4. enter the serial number of the inverter (click the [-] to open the camera and scan the bar code on the side of the inverter

  5. The customer will get an email inviting them to sign in with an end user account.
  6. If the site has multiple inverters, add the first one when creating the end user.
  7. Then go to that end user in your list of users. There will be an option to add more inverters to the plant.

Most programming functions are all the same with the app and service portal. You can program the inverter with whichever you prefer. It is possible to program the inverter completely on site via bluetooth connection. Or you can get the inverter connected to wifi with the bluetooth app, and then create an end user and do the remainder of the programming using the portal or the app remotely.

Upgrading the firmware is one feature that can only be done via the portal. There is a dropdown list of firmware you can select from (contact your distributor for the latest stable versions for different applications). Battery firmware is updated from the master inverter.

Another feature available only on the portal is downloading data files. These file can assist with troubleshooting. There is an Excel spreadsheet available from your distributor which can convert the csv file from the inverter to a numerical format for post processing.

There may be a lag of several minutes in changing programming remotely. Do not be impatient. Pushing commands multiple times in a row can cause a data jam and cause it to take even longer to respond.

Solar Assistant

Another option for remote monitoring of the inverter is hooking a Solar Assistant to it. This pull the data stream from the inverter canbus and sends it to the Solar Assistant server. Currently this is only available for monitoring and does not offer any remote control/programming ability. In addition, there are some some data fields that do not display correctly in the Solar Assistant meters, such as AC coupled PV power.