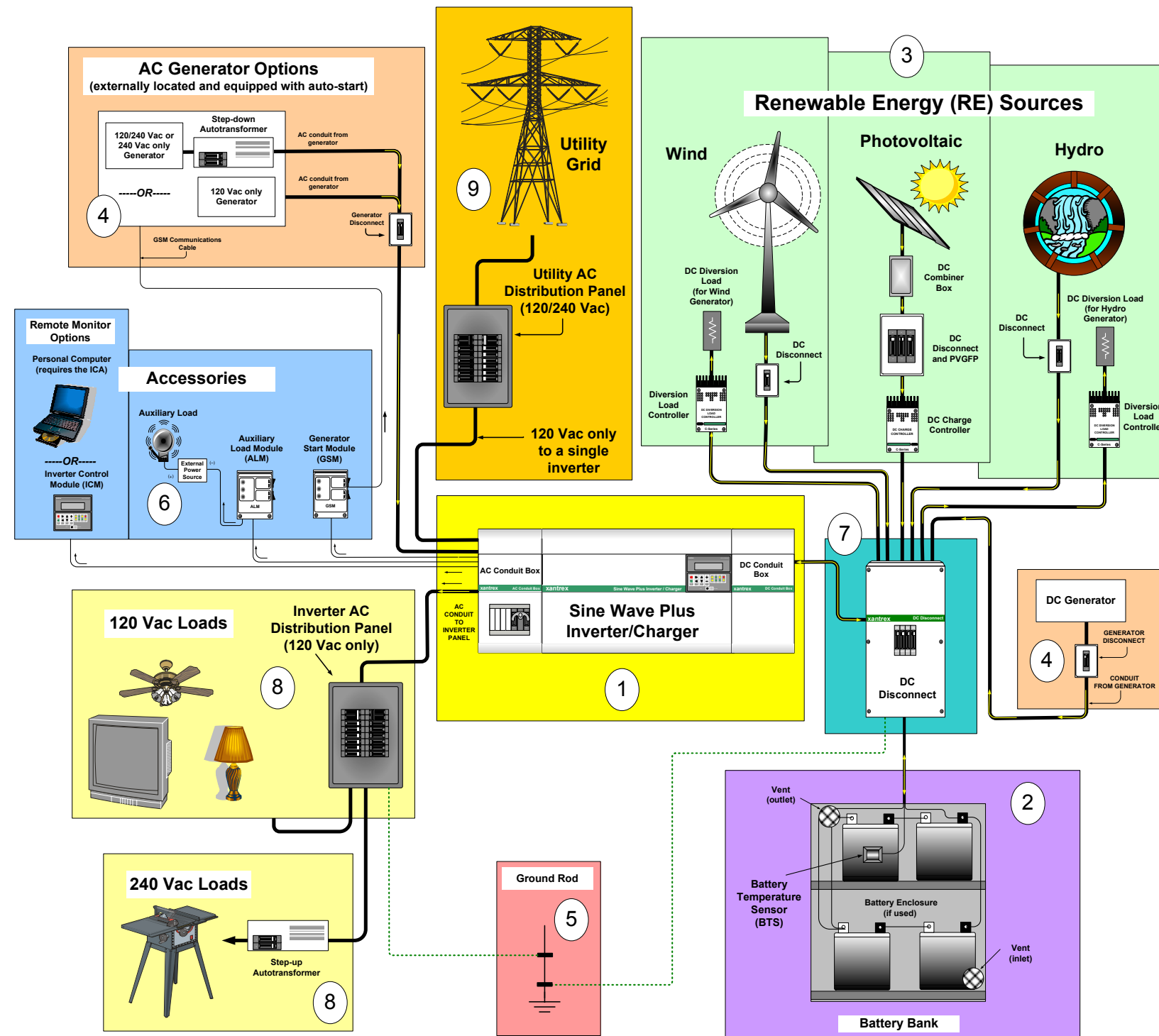


Sine Wave Plus - Installation Overview

Important: This overview is NOT intended to replace the Sine Wave Plus Owner's Manual. **BE SURE TO READ THE OWNER'S MANUAL FOR PROPER INSTALLATION INSTRUCTIONS.** Installation of this equipment should only be performed by skilled personnel such as qualified electricians and Certified Renewable Energy (RE) System Installers. For a list of Xantrex Certified RE dealers, please visit our website at www.XantrexREdealers.com.



Installation Overview:

The following information is a list of basic steps required to install a Sine Wave Plus Inverter/Charger. Actual installation procedures will vary depending upon the configuration of the intended system. **This Overview is provided for information only. Consult the Sine Wave Plus Owner's Manual for specific installation instructions.**

1. Mount the inverter/charger and supporting components.

- ▶ Plan the safe location and wiring routes for all components involved.
- ▶ Be sure the mounting surface is strong enough to support the weight of all the equipment.
- ▶ Be sure all wiring will safely handle the desired loads/current.

2. Prepare the battery bank.

- ▶ Select battery type, size, and battery bank configuration (Series, Parallel or Series-Parallel).
- ▶ Connect appropriate cabling, DC disconnects, and over-current protection.

3. Install the renewable energy sources (if used).

- ▶ Photovoltaic sources (Solar) - Includes the PV panels, combiner boxes (if used), DC Disconnects with ground fault protection (PVGFP) and DC Controller.
- ▶ Wind/hydro sources - Includes the hydro/wind generator, DC Disconnects, load controller, and Diversion Load.

4. Install the AC or DC generator (if used).

- ▶ Install an AC generator for AC load backup or battery charging.
- ▶ Install a DC generator for DC loads or battery charging.
- ▶ If using a 120/240 Vac or 240 Vac only generator, be sure to include a step-down or step-up autotransformer. The SW Plus Inverter is not designed to accept 240 Vac input.

5. Prepare the system grounds.

- ▶ Ensure there is only one (1) neutral-to-ground bond.
- ▶ Ensure the system is properly grounded and has all appropriate system protection.
- ▶ Ensure multiple ground rods (if used) are bonded together.

6. Install any accessories needed.

- ▶ Remote Monitors and/or EPO Switch
- ▶ Generator Start Modules
- ▶ Auxiliary Load Modules
- ▶ DC250/175, PV Ground Fault Protection
- ▶ Charge/Load Controllers
- ▶ Stacking Cables (Dual Inverter Systems)
- ▶ Step-up or Step-down Autotransformers
- ▶ TM500A Battery Status Monitor

7. Connect the battery bank to the inverter/charger.

- ▶ Connect the Negative Cable from the DC Disconnect to the DC Negative (-) terminal on the Inverter.
- ▶ Connect the Positive Cable from the DC Disconnect to the DC Positive (+) terminal on the inverter.

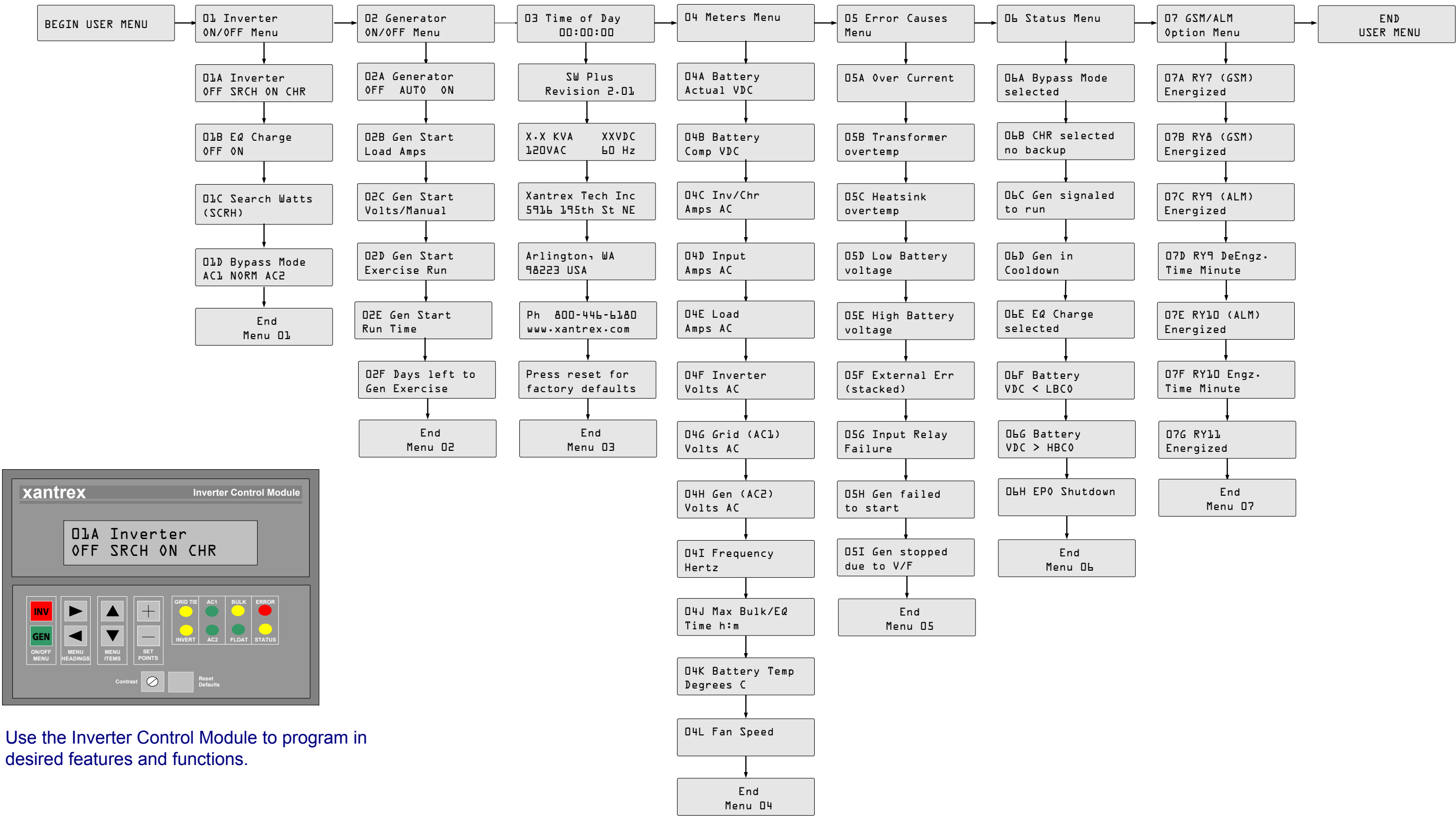
8. Connect the inverter/charger to the inverter AC distribution panel and house loads.

- ▶ Connect the AC OUT of the inverter/charger to the AC distribution panel being power by the inverter/charger.

9. If power is available from a local utility grid:

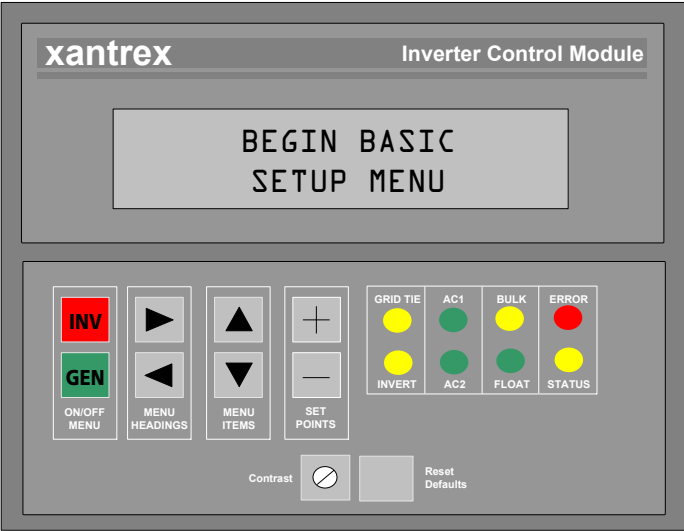
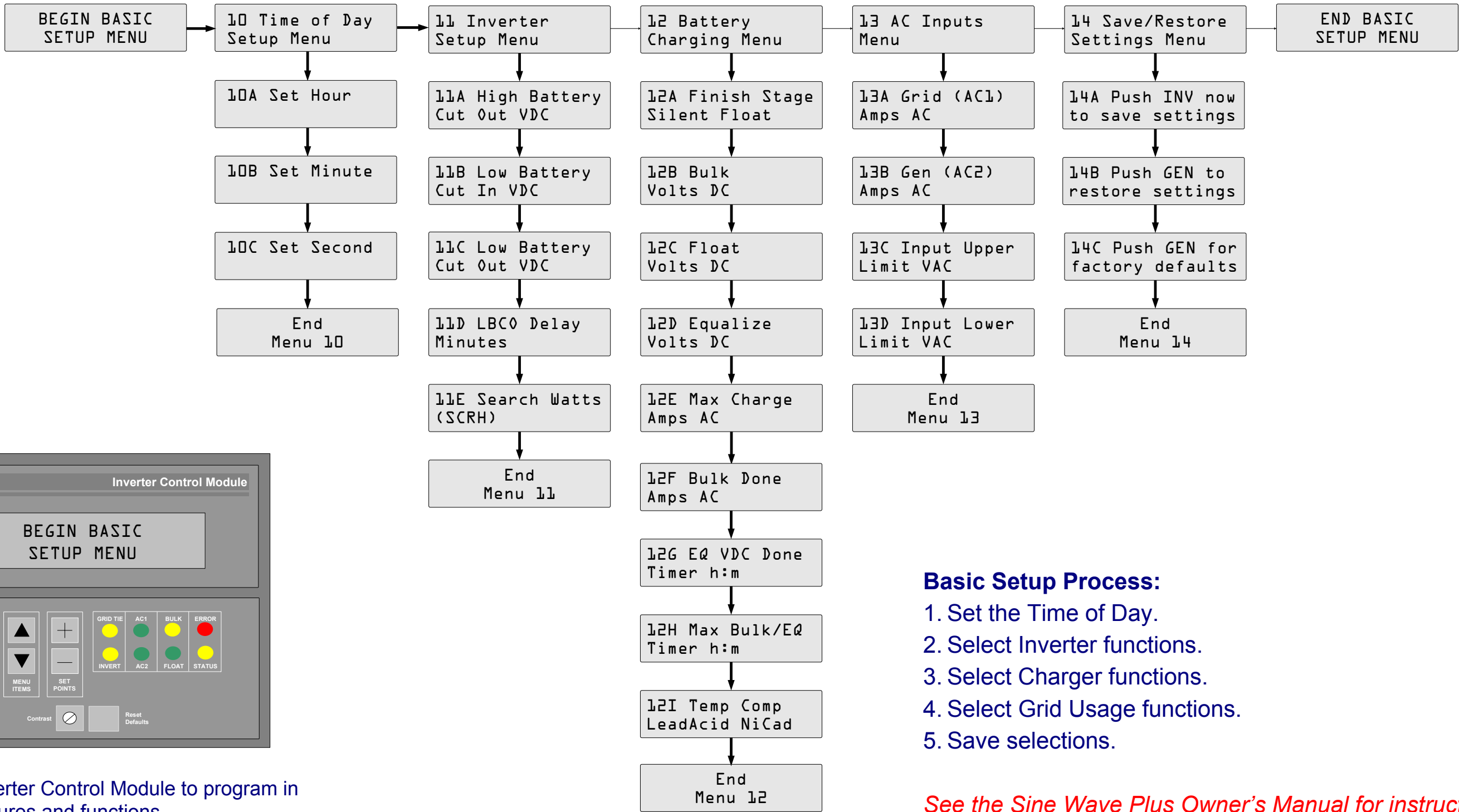
- ▶ Connect one input (120 Vac) from the 120/240 Vac Utility AC Distribution Panel to the AC input of the Inverter/Charger. (i.e., single inverter system). The second 120 Vac input can be connected to a second inverter in a dual-inverter configuration. A single inverter is not designed for 240 Vac input.

Sine Wave Plus - User Menu Map



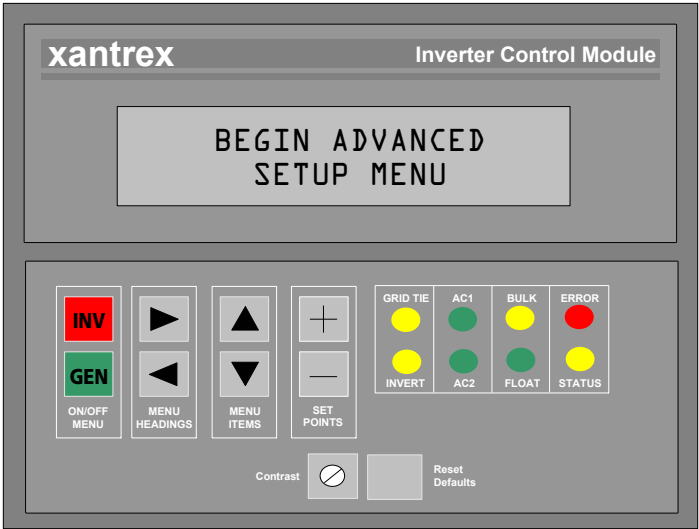
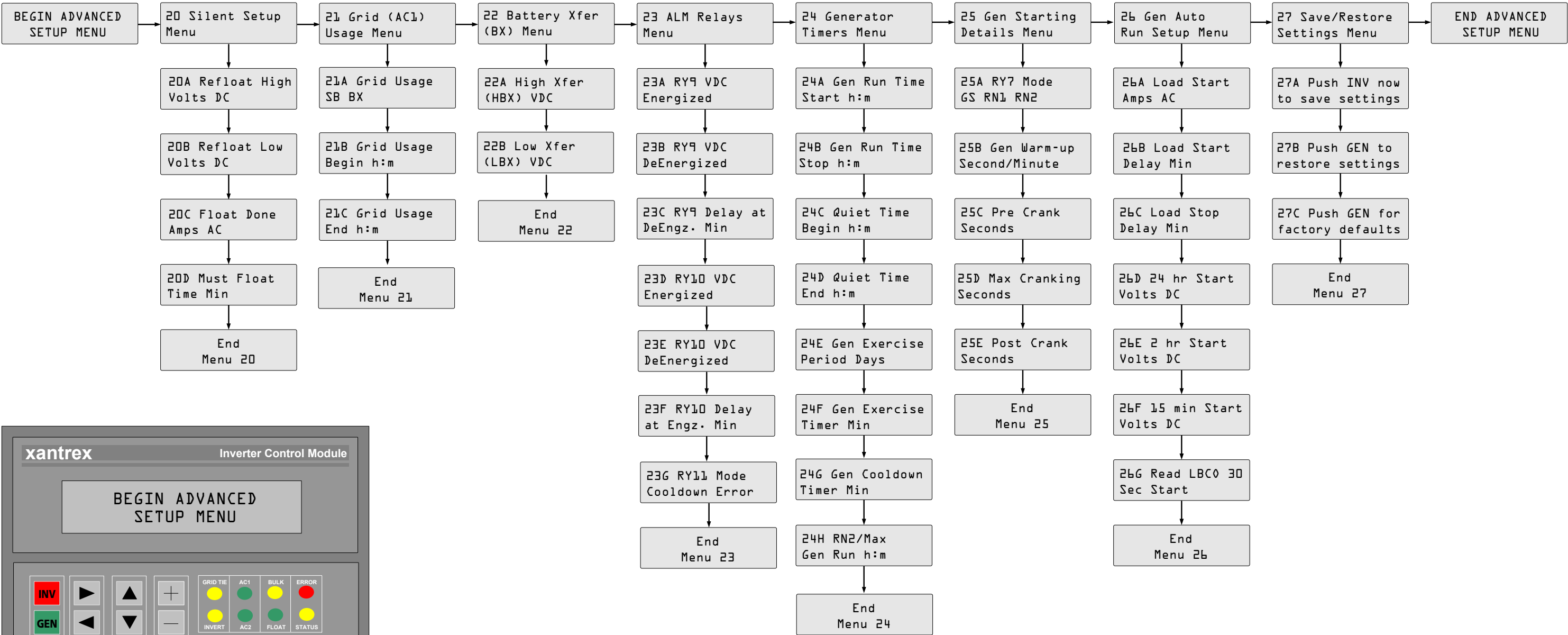
Use the Inverter Control Module to program in desired features and functions.

Sine Wave Plus - Basic Setup Menu Map



Use the Inverter Control Module to program in desired features and functions.

Sine Wave Plus - Advanced Setup Reference Guide



Use the Inverter Control Module to program in desired features and functions.