Models:

- **Wmax 80**: 80 amps maximum continuous output current (up to 40°C without thermal derating)
- **Wmax 60**: 60 amps maximum continuous output current (up to 40°C without thermal derating)

Features:

- Supports 12, 24, 36, 48, and 60 Vdc battery voltages
- Backlit display screen (LCD) with 80 characters (4 lines, 20 characters per line)
- Last 128 days of operational data logging
- Voltage step-down capability allowing a higher PV array voltage configuration
- Manual and automatic equalization cycles

Screen Versions:

- **English**
- **Spanish**

Recommended Input PV Wattage per Charge Controller*

Battery Bank Voltage	Maximum PV Input Wattage for the Wmax 80	Maximum PV Input Wattage for the Wmax 60
12 Vdc	1000 W	750 W
24 Vdc	2000 W	1500 W
36 Vdc	3000 W	2250 W
48 Vdc	4000 W	3000 W
60 Vdc	5000 W	3750 W

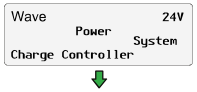
*Standard Test Conditions

Wmax 80 Charge Controller

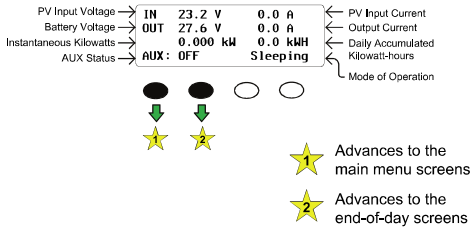
Wmax 60 Charge Controller

The interior design is identical in each model.

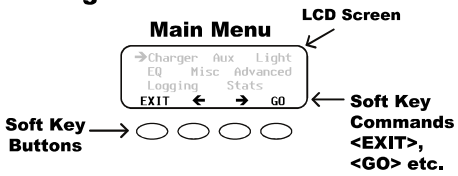
Startup Screen



Status Screen



Navigation:



Soft Key Color Code:

- *Available menus*
- *Select this option to proceed*
- *Adjusts the set points value*
- *Selects a function (e.g., ON, OFF, AUTO)*
- *Switches between devices on the ports of the Communications HUB*
- *Navigation colors*

NOTE: Soft key functions will vary depending on the selected menu and are defined by the word above the key in the LCD.

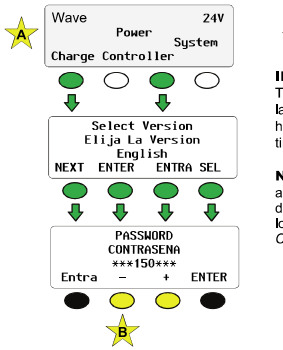
Indicates a 1-screen movement within a Menu. These are color coded according to their function or purpose.

If accompanied by a dashed line, pressing that soft key will return the user to the location identified by the dashed line. This will vary depending on the devices in the system.

NOTE: See page 2-4 of this guide for menu maps for setting the versions, changing the language of the screens, and accessing the main menu.

See the *Wmax Series Owner's Manual* for details on the settings available in the main menu.

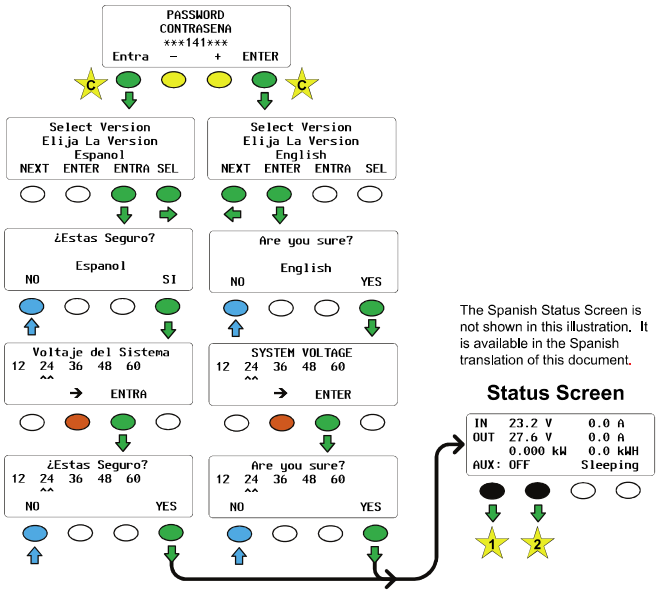
To change the Language, Screen Version or System Voltage:



IMPORTANT:
To access the screens to change the language or system voltage, press and hold the 1st and 3rd soft key at the same time, THEN CLOSE THE DC BREAKERS.

NOTE: Changing these setting will revert all other settings back to the factory defaults. Any customized settings will be lost. See the *Wmax Series Charge Controller Owner's Manual* for details.

1. Press the < – > soft key until "**141**" is displayed on the LCD.
2. Press the <**ENTER**> or <**ENTRA**> soft key to accept the password and move forward to the Select Version Screen.

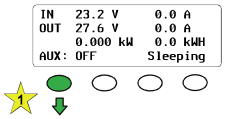


The Spanish Status Screen is not shown in this illustration. It is available in the Spanish translation of this document.

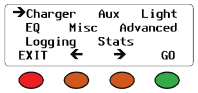
Status Screen

To access the Main Menu:

Status Screen



Main Menu Screen



To select a menu from the Main Menu, press the <←> or the <→> soft key to move the cursor (→). When the → is next to the desired menu, press <**GO**>.

- ***Charger***—CHARGER SETUP

  Adjusts the Current Limit, Absorbing, and Float recharging voltage set points
- ***Aux***—AUX OUTPUT CONTROL

  Secondary control circuit for a vent fan, AGS, error alarm, and other system-related additions
- ***Light***—BACKLIGHT CONTROL

  Adjusts the backlighting of LCD screen and soft key buttons
- ***EQ***—BATTERY EQUALIZE

  Activates battery equalization (manually or automatically)
- ***Misc***—MISCELLANEOUS

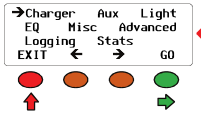
  Additional settings and service information
- ***Advanced*** —ADVANCED MENU

  Optimizes/fine-tunes the charge controller
- ***Logging***—DATA LOGGING

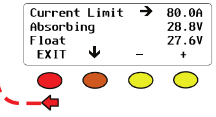
  Displays recorded power production information
- ***STATS***—STATISTICS

  Displays recorded peak system information and cumulative kilowatt-hours and amp-hours

Main Menu Screen



Charger Screen



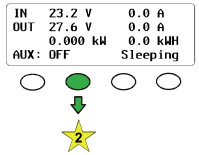
Press <↓> to move the → next to the desired setting.
Press < – > or <+> to adjust the setting.
Press <**EXIT**> to return to the main menu.

Continued on the next page.

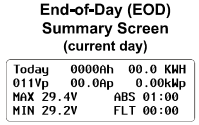
End-of-Day (EOD) Summary Screens

Status Screen

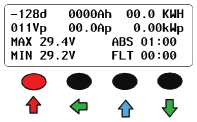
NOTE: The values shown in this illustration will vary depending on the nominal DC voltage.

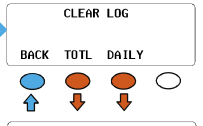


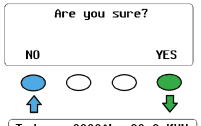
End-of-Day (EOD) Summary Screen (current day)

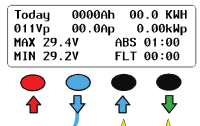


EOD (Day 1 of 128 days past)

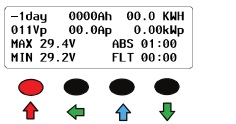


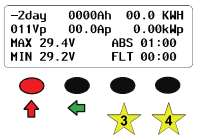






EOD (Previous day)





3 Continuing to press this soft key will cycle backwards by 1 day up to 128 days.

Press and hold this soft key to automatically scroll backwards through the available days.

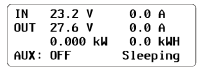
4 Continuing to press this soft key will cycle forward by 1 day up to 128 days.

Press and hold this soft key to automatically scroll forward through the available days.

Aux Modes

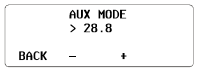
Continued from the previous page.

Status Screen

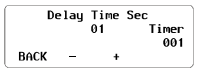


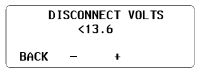
Main Menu Screen

Vent Fan

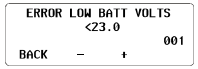


PV Trigger

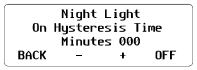


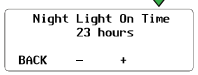


Error Output



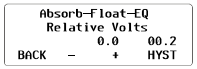
Night Light



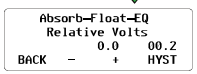


Float

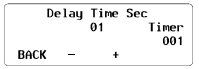
Diversion: Relay

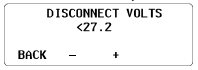


Diversion: Solid St



Low Batt Disconnect

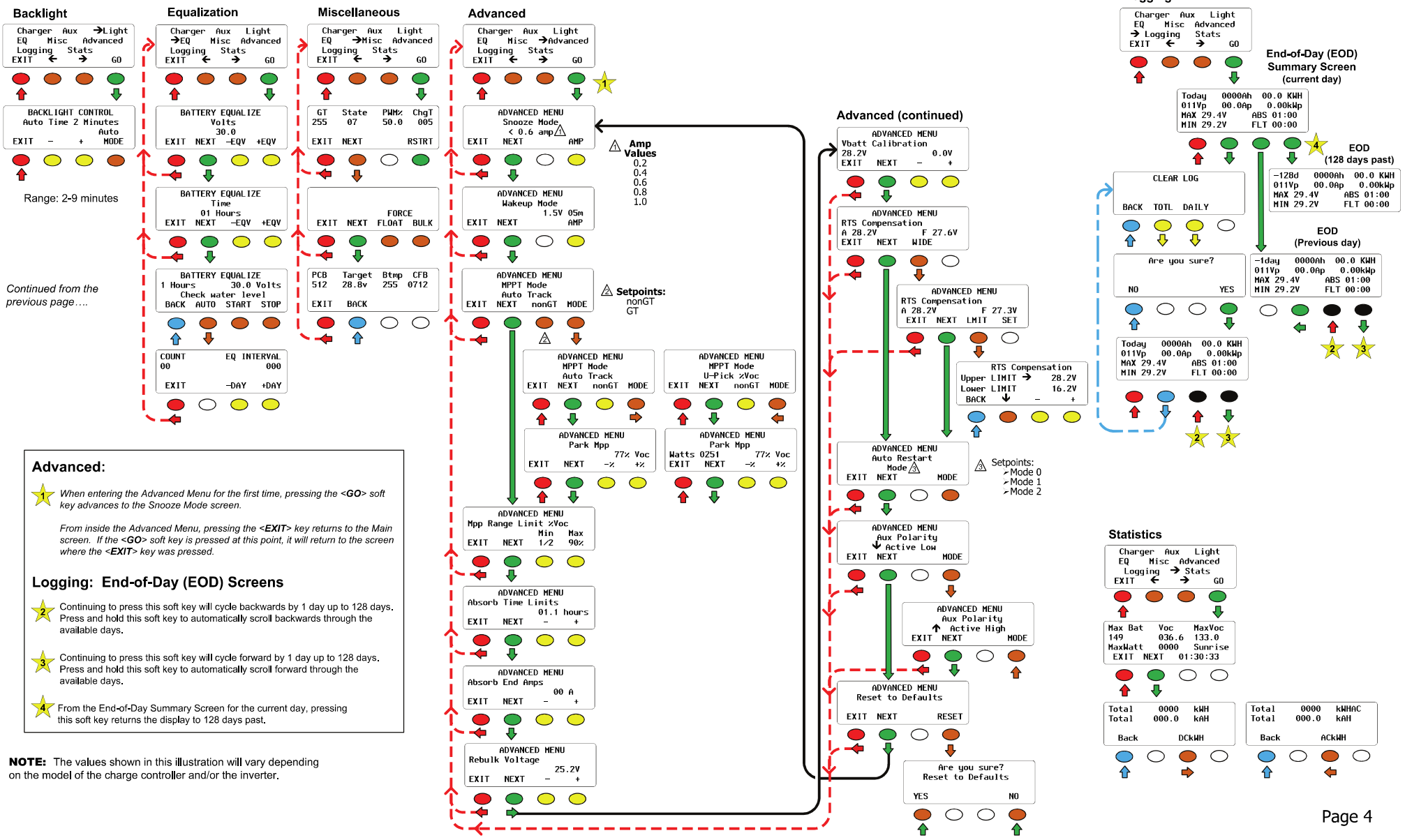




Remote

Returns to the Vent Fan Screen.

Main Menu Screens (continued)



Continued from the previous page….

Advanced:

1. *When entering the Advanced Menu for the first time, pressing the <**GO**> soft key advances to the Snooze Mode screen.*

   *From inside the Advanced Menu, pressing the <**EXIT**> key returns to the Main screen. If the <**GO**> soft key is pressed at this point, it will return to the screen where the <**EXIT**> key was pressed.*

Logging: End-of-Day (EOD) Screens

2. Continuing to press this soft key will cycle backwards by 1 day up to 128 days. Press and hold this soft key to automatically scroll backwards through the available days.

3. Continuing to press this soft key will cycle forward by 1 day up to 128 days. Press and hold this soft key to automatically scroll forward through the available days.

4. From the End-of-Day Summary Screen for the current day, pressing this soft key returns the display to 128 days past.

NOTE: The values shown in this illustration will vary depending on the model of the charge controller and/or the inverter.