



Lithium Battery Settings

QUICK REFERENCE GUIDE

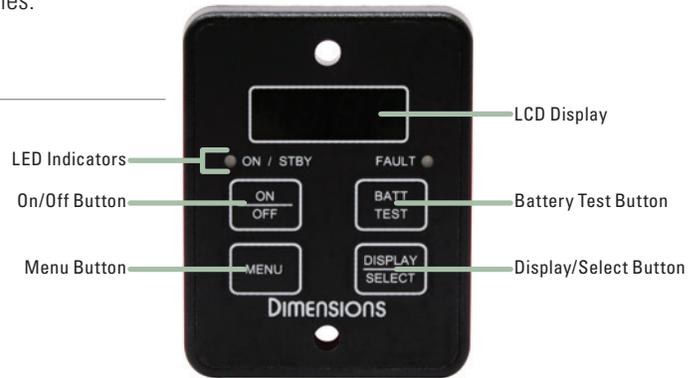
Using the Dimensions LCD or Seven Segment Remotes, set Dimensions NP Series inverter/chargers to charge lithium iron phosphate (LFP) batteries.

Seven Segment Remote Control

From the Seven Segment Remote Control, software version FW0027.C and later, program your Dimensions NP Series inverter/charger, serial number WA21001001 and higher, to charge lithium batteries.

NOTE ON SETTINGS

Settings take effect when the inverter enters the next charging cycle. If shore power is connected when choosing LFP settings, unplug and reconnect for the new charger settings to be applied.



STEP ONE – Set the Battery Type setting to LFP.

 Press the On/Off button to turn the inverter on.

 Press and hold both MENU and DISPLAY buttons for five seconds.

 The FAULT LED will turn green.

 Press the MENU button two times to get to the Battery Type [bAtt tyPE] screen.

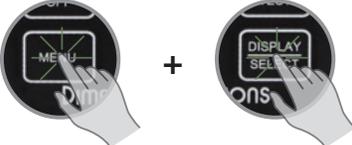


 Press the DISPLAY button to select options. Select LFP.



 Press the MENU button to save the setting. Press the MENU button again to exit.

STEP TWO – Set the Battery Profile.

 Press and hold both MENU and DISPLAY buttons for five seconds.

 The FAULT LED will turn green.

 Press the MENU button three times to get to the Battery Profiles [bAtt PrOF] screen.



 Press the DISPLAY button to select options. Select the appropriate battery profile for your setup. Use this table to choose the best profile.

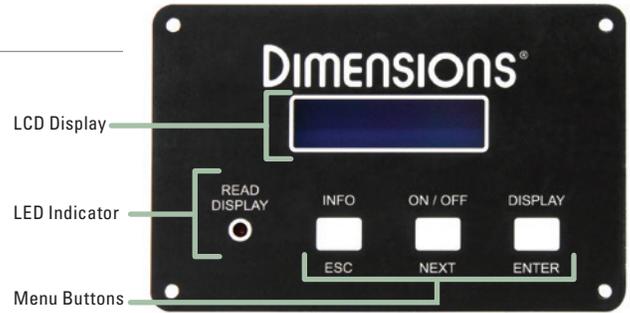
Profile	1	2	3	4
High Temp Shutdown	45°C	45°C	60°C	60°C
Cold Temp Shutdown	0°C	None	0°C	None
Cold Reduced Charge	5°C	5°C	5°C	5°C

For batteries with a built-in heater, select the Cold Temp Shutdown profile set to NONE.

 Press the MENU button to save the setting. Press the MENU button again to exit.

LCD Remote

From the LCD Remote, software version FW0067.D and later, program your Dimensions NP Series inverter/charger, serial number WA21001001 and higher, to charge lithium batteries.



STEP ONE – Set Battery Type to LFP.

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Hold the DISPLAY button for 5-10 seconds to enter Settings mode.
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Press the NEXT button two times to navigate to Battery Type.
- 

Press ENTER to change the setting.
- 

Press NEXT until LFP appears.
- 

Select ENTER to choose value. LED will blink rapidly for about two seconds to confirm setting change.

STEP TWO – Choose one of four default LFP profiles.

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While still in Settings mode, press NEXT button to navigate to Battery Profile.
- 

Press ENTER to change the setting.
- 

Press NEXT until Batt Profile appears.

Use this table to choose the best profile.

Profile	1	2	3	4
High Temp Shutdown	45°C	45°C	60°C	60°C
Cold Temp Shutdown	0°C	None	0°C	None
Cold Reduced Charge	5°C	5°C	5°C	5°C

For batteries with a built-in heater, select the Cold Temp Shutdown profile set to NONE.

- 

Select ENTER to choose value. LED will blink rapidly for about two seconds to confirm setting change.

STEP THREE – Set the Low Battery Cutout to battery manufacturer's specifications.

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While still in Settings mode, press NEXT button to navigate to Low Battery.
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Press ENTER to change the setting.
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Press NEXT until correct setting for battery manufacturer's specs appears, or 11.0 VDC, if not specified.
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Select ENTER to choose value. LED will blink rapidly for about two seconds to confirm setting change.

Default Custom Settings for LFP

Constant Voltage	14.4 VDC
Min Constant Voltage	13.9 VDC
Max Constant Voltage	14.8 VDC
Default Constant Voltage Timer	0.5 HRS
Max Constant Voltage Timer	25 HRS
Float Voltage	13.6 VDC
Min Float Voltage	13.3 VDC
Max Float Voltage	13.8 VDC

Note: Custom LFP settings may be applied by setting Charger Settings to CUSTOM. Options for setting constant voltage time and voltage, float voltage, max charge amps, battery amp-hour capacity, battery high, and low temp shutdown will then be available.

Guide provided for reference only. Please read the full Owner's Manual for each remote control.



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