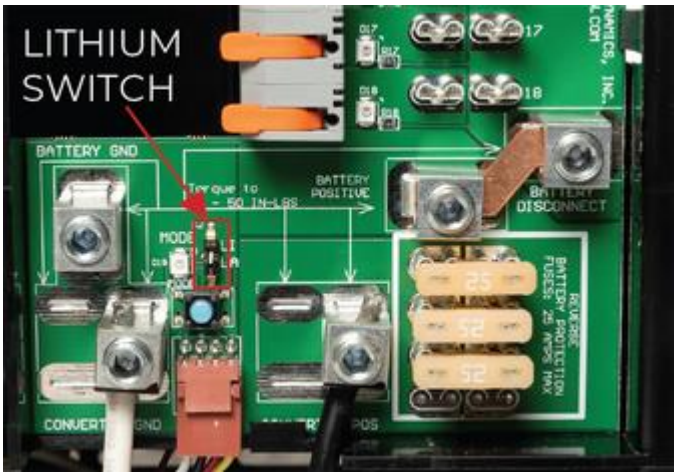
PD4500K Using with LiFePO4 (Lithium) Batteries.

1. **It is not common for the K model to have the Switch.**

The Switch will be visible next to the Wizard light and mode button.

Location of switch



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2. **If you do not have the switch.**

Look on the main converter board near the front for a jumper.

Check the main board for a header jumper. It may have it if manufactured after 2017.

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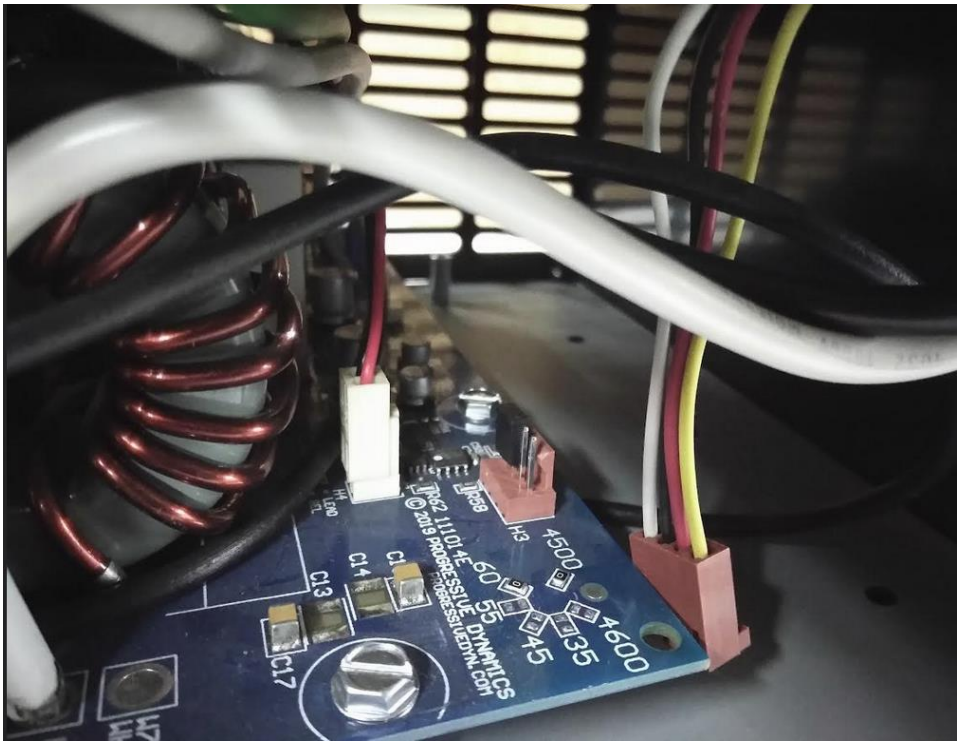
3. **If you do not have the switch or the above WIZ LI jumper then** …



Disconnect the 4 wire Harness. (It is not needed in LI mode) add a 2 pin jumper as shown on H3.

This will set it to 14.4 VDC continuous output for Lithium batteries. This is the profile that we are shipping today with this model.

We can send you the jumper if you give us your address.

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4. **The converter section can be replaced with:**

PD4560CSV

PD4575CSV

PD4590CSV

However if yours is a model without the switch on the fuseboard the CSV replacements will only work in Lead Acid mode unless

A jumper is added as above.

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PD4560LICSV , PD4590LICSV , PD4575LICSV Can be used with the K models to provide Lithium only at 14.4 VDC (if manufactured prior to January of 2023 14.6 VDC)

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5. **The entire power center can be replaced with a Current model. These will have the switch on the fuse board.**

PD4560AV

PD4575AV

PD4590AV

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6.**Any of the above solutions will give you a single stage Lithium charger at 14.4-14.6 VDC**

This is quite adequate for most installations.

Another way to go is if you have space the PD9160ALV is a 2 stage Lithium Charger.

When installing.

The + and - wire needs to be capable of handling the full amperage output of the converter for the distance between the converter and battery

Any wire directly connected to the battery positive must be fused within 18" of the battery connection.

Multiply the converter amperage by 125% to obtain the minimum breaker or fuse size at the battery.

DC Circuit Breakers

Breaker or fuse size should not exceed the wire capacity.

Then determine the minimum wire size for the distance and amperage required for a 3% drop at maximum charge rate.

Choosing the correct wire size Chart

http://circuitwizard.bluesea.com/ Calculator

Older K Model converters. 2012 - 2017 Remove the 4 wire harness and place a jumper as shown.

This will give 14.4 VDC continuously for Lithium batteries.