

Power. On your terms.



PHI 3.4 Basic Programming & Troubleshooting

The chart above represents a C/2 discharge for a fixed resistive load

	24 V		48 V	
Cycle Life	5,000	10,000	5,000	10,000
Low Battery Cut Out	23.2 V	24.5 V	46.4 V	48.9 V
Bulk Voltage	27 V	27 V	55 V	55 V
Absorb Voltage	28.8 V	28 V	57.6 V	56 V
Absorb Time	1 Hour		1 Hour	
Float Voltage*	27 V		54 V	
Ah (Per Unit)	134 Ah	107.2 Ah	67 Ah	53.6 Ah
Continuous Amps (Per Unit)	45 A	45 A	33 A	33 A

Recommended Setpoints

* Float Voltage is not required. Adjust Float Voltage based on application. Self-discharge is <1% per month

Basic Troubleshooting

The majority of issues encountered with a SimpliPhi battery bank can be traced back to the voltage set points. To begin troubleshooting, **always verify the voltage set points on all inverters and charge controllers** in the system.

Over Discharge / Low Battery Voltage Self Protection:

A deeply discharged PHI Battery Module will enter a state of self-protection to avoid excessive discharge.

This voltage point is at approximately 40V.

At this Voltage the battery will turn off - the breaker will not trip. The BMS will not allow the battery to be discharged.

With a voltmeter, the terminals may measure in the 6-20 V range on a 48 V battery. Do not be alarmed – this is the normal operation when the battery goes into over-discharge protection.

To reset the battery:

- 1. Cycle the breaker on the Battery or DC Panel
- 2. Provide a charge current
- 3. Double check and modify the low battery cut out voltage set point on all inverters and charge controllers in the system

Over Charge / Over Voltage

The battery will turn off and refuse incoming charge at approximately 62.4 Volts. Over Voltage protection will release at approximately 60 V.

To reset the battery:

- 1. Cycle the breaker on the Battery or DC Panel
- 2. Run a discharge cycle
- 3. Double check and modify the Absorb, Bulk, and EQ voltage set points on all inverters and charge controllers in the system

For further technical support, please contact us at:

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