FORTRESS POWER
Secure your energy

eVault Max 18.5
# QUICK START GUIDE

System Start Up

Before starting up the battery for the first time ensure the following:
- ✓ The system inverter/equipment is De-energized
- ✓ eVault Max is Turned off (screen off)
- ✓ eVault DC breaker is in "Off" position

Read this entire document, in addition to the Installation Manual, before installing or using eVault Max. Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, or death, or can damage eVault Max, potentially rendering it inoperable. ⚠
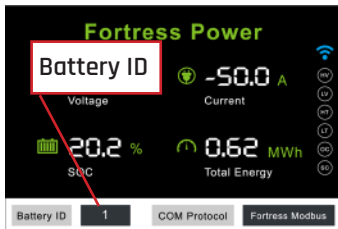
1
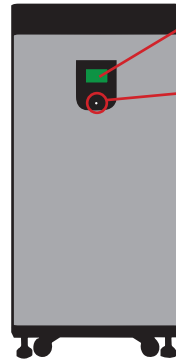
49+V

After un-boxing, turn on unit by holding the push button for ~10 seconds (wait for the green status light to turn on)

- Verify Voltage is above 49V on the LCD Screen
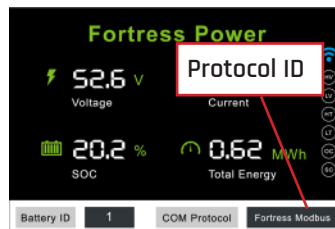- Turn battery off if Voltage is above 49V

If Voltage is below 48V, contact tech support

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Fortress Power

Battery ID	⊘ -50.0 A
Voltage	Current
🔋 20.2 %	⌂ 0.62 MWh
SOC	Total Energy

Battery ID 1   COM Protocol   Fortress Modbus

- For single battery systems set the Battery ID to 0
- For multiple battery systems. set the battery ID to 1, 2, 3...N
- **NOTE:** Please see the full installation manual for multi-battery systems
- Power cycle the battery by using the push button after changing this value.

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Fortress Power

⚡ 52.6 V	Protocol ID
Voltage	Current
🔋 20.2 %	⌂ 0.62 MWh
SOC	Total Energy

Battery ID 1   COM Protocol   Fortress Modbus

- When configuring closed loop communication set this ID to match your inverter type.

- **Fortress/SolArk RS485** = 1 **SMA CAN** = 2
- **Fortress CAN** = 3 **Victron CAN** = 4
- **Schneider RS485** = 5

4

120Ω ON   120Ω OFF   120Ω ON
COM_Parallel   COM_Parallel   COM_Parallel
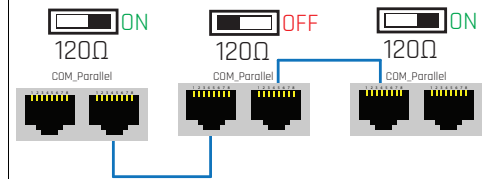
- For multiple battery systems you will need to set the battery termination resistor of the first and last battery to ON, with all others set to OFF.
- In addition, you will need to connect the included ethernet communication cables as shown from battery-to-battery
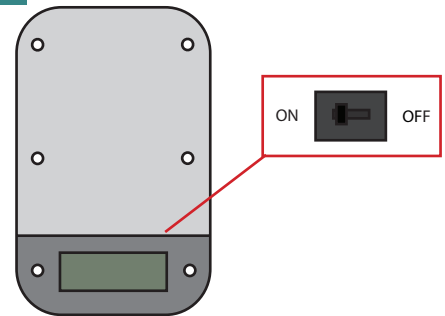
5
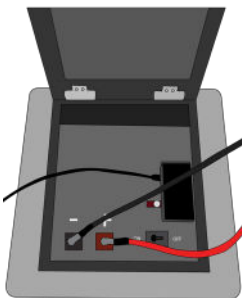
- With the battery off, connect proper DC cabling to the terminals of the eVault Max
- Land the other ends on the inverter DC input, or bus bar/battery combiner

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ON   OFF
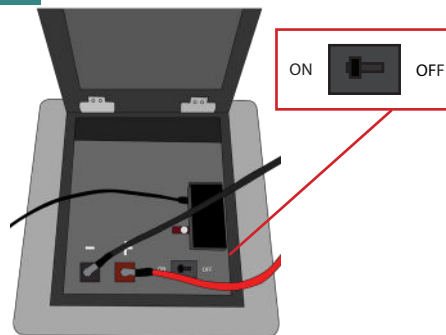
- Turn the DC breaker on the eVault max to the "On" position

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ON   OFF

- Turn on the inverter DC input disconnect
- Turn on the eVault Max(s) using the push button

eVault Max 18.5
BASIC SETUP GUIDE

FORTRESS POWER — Secure your energy

Inverter Programing for eVault Max

Before operating the eVault Max be sure to read the Quick Start Guide, this Setup Guide, and the full Installation Manual.

It is critical to program your inverter or charge controller's settings for correct operation, improper programming of your system equipment may invalidate your battery warranty and could degrade system performance.
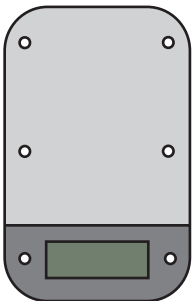
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1 Basic Battery Settings
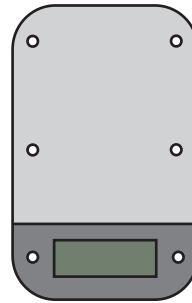
Li-ion	**Battery Type** (or Custom programmed per Step 2)
170A	**Max Charge Current** (per battery)
180A	**Max Discharge Current** (per battery)
360Ah	**Battery Capacity** (per battery)

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2 Charging Settings
for open loop control

54.4V	**Absorption Voltage**
54.4V	**Float Voltage**
54.4V	**Equalization Voltage** (or Disabled)
30	**Equalization Days** (or Max Number)
0	**Equalization Hours** (or Lowest Number)

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3 Discharge/Cutoff Settings
for open loop control
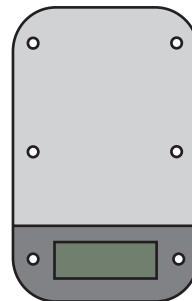
49V	**Shutdown Voltage** (or nearest voltage)
51.4V	**Cut-out Battery Voltage**
51.8V	**Cut-in Battery Voltage**
98%	**Charging Efficiency** (if required)
5mΩ	**Battery Resistance** (Applicable to Sol-Ark)

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4 Advanced Settings
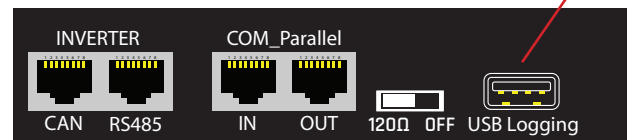### for closed loop control

Closed loop is only supported by select inverters and requires a custom communication cable.

For detailed instructions on implementation and a full compatibility list please visit our website at: http://fortresspower.com/inverter-guides

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3 USB Logging

USB Port

INVERTER — CAN · RS485 | COM_Parallel — IN · OUT | 120Ω OFF | USB Logging

The eVault Max includes a USB stick for data logging information from the battery when requested by tech support. This should be left **unplugged** when not in use or it can cause performance issues with the battery.