

# **QUICK START GUIDE**

Determine how to control load

Before you wire the BMS, it is important to

figure out how you will control the load and

and Charger with the BMS" section of the wir-

ing manual for assistance in how to determine

the charger. See the "Interfacing the Load



# **BEFORE YOU BEGIN**

Read the provided safety sheet before you begin to set up your Orion Jr. BMS.

As you wire the various connectors, please keep them DISCONNECTED from the BMS until you are instructed to connect the BMS.

# Wire Batteries / Voltage Taps

Verify Battery Wiring

this for your specific BMS application.

and charger

Verify the wiring of your batteries using the tap validation tool (can be purchased or rented from Ewert Energy) or using a multime-

See "Verifying Cell Voltage Tap Wiring" in the wiring manual for more information.

Wire Main I/O Harness

Use the provided pin-out diagram to wire the Main I/O Harness

See the wiring manual for detailed instructions on wiring this connection.

### Download Orion Jr. BMS Utility

Use the provided disc to download the Orion Jr. BMS Utility to your computer.

Connect BMS to computer and to all wiring harnesses.

## the BMS while you wire the batteries.

Read the entire "Wiring Voltage Taps" sec-

tion of the wiring manual before you begin

Keep the wiring harness UNPLUGGED from

DO NOT plug the BMS into the batteries yet.

# Program BMS using the Profile Set Up Wizard

Things to know when you begin the Set Up Wizard:

- Battery configuration (chemistry, number of cells in series/parallel, location of fuses and long cables (if used))
- Size of current sensor used

wiring your cells.

What other devices are being used (charger, motor controller, etc.)

Things to check after completing the Set Up Wizard:

- Maximum/minimum voltage settings
- Maximum current limits

Upload the settings to the BMS after making your profile. See the software manual for more information about programming your BMS.

# Test the BMS

Before putting the BMS into regular use, watch it closely for one full charge and discharge cycle to ensure that wiring and profile are correct.

Make sure the BMS correctly turns off the charger when cell voltage hits the maximum or shuts off the load when the cell voltage hits the minimum. If there are any problems, please correct before putting the BMS into regular use.

Your BMS should be ready to use. Please follow all guidelines in the safety instructions and manuals to avoid damaging the BMS or the batteries.