

VICTRON ENERGY - 12 V INTERNAL BMS EXAMPLE WIRING DIAGRAM

VERSION 8 - MAY 2025



SUPER AWESOME BUNDLE PRICE

FAST & FREE GROUND SHIPPING

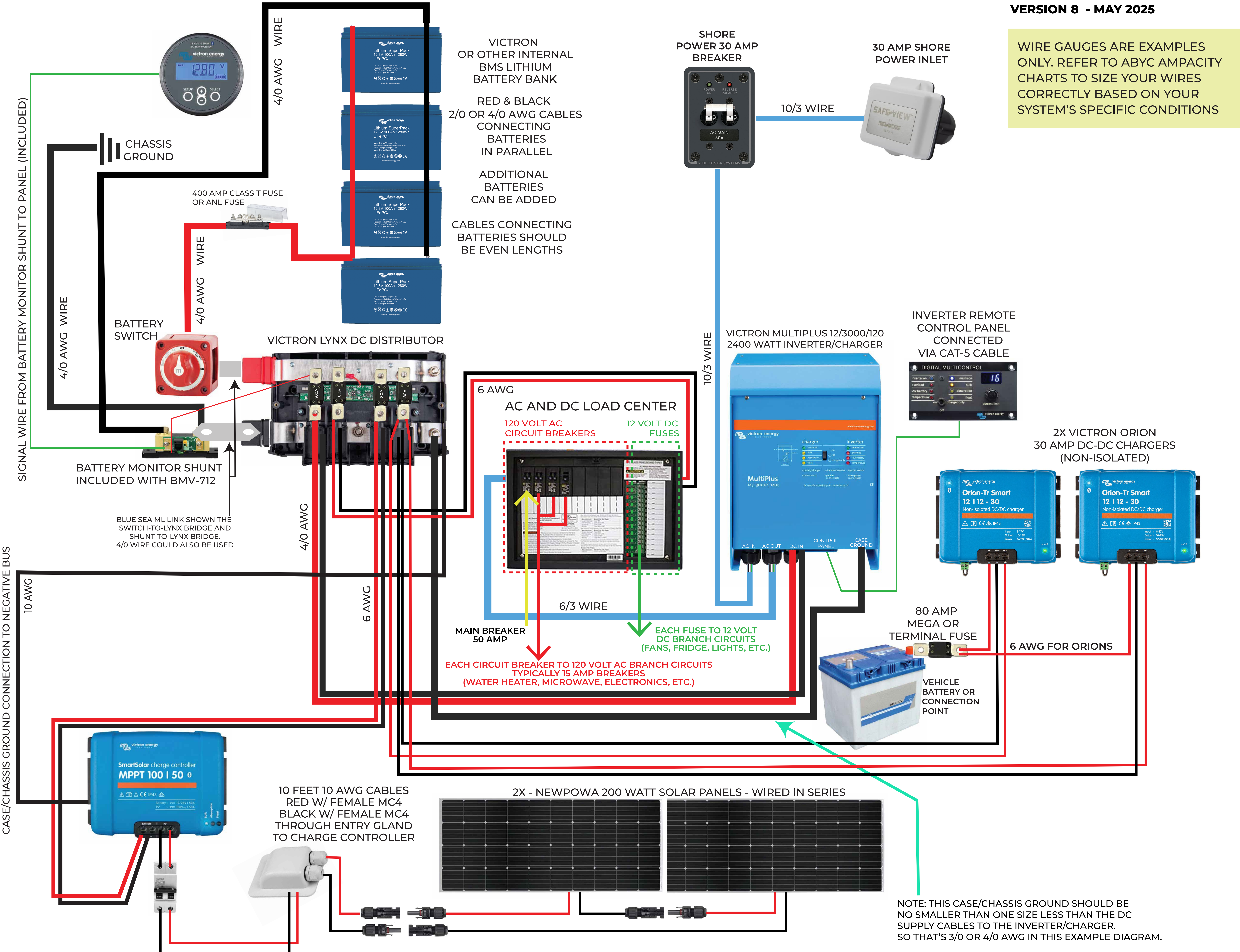
WORLD-CLASS SERVICE & SUPPORT

SCAN FOR DETAILS



THIS IS NOT ELECTRICAL ADVICE. THIS IS AN ILLUSTRATION OF ELECTRICAL SYSTEMS THAT WE HAVE USED IN OUR VANS. ALWAYS DO YOUR OWN RESEARCH AND USE THIS INFORMATION AT YOUR OWN RISK.

Pricing and offers subject to change.



WIRE GAUGES ARE EXAMPLES ONLY. REFER TO ABYC AMPACITY CHARTS TO SIZE YOUR WIRES CORRECTLY BASED ON YOUR SYSTEM'S SPECIFIC CONDITIONS

VICTRON OR OTHER INTERNAL BMS LITHIUM BATTERY BANK
RED & BLACK 2/0 OR 4/0 AWG CABLES CONNECTING BATTERIES IN PARALLEL
ADDITIONAL BATTERIES CAN BE ADDED
CABLES CONNECTING BATTERIES SHOULD BE EVEN LENGTHS

6 AWG
AC AND DC LOAD CENTER
120 VOLT AC CIRCUIT BREAKERS
12 VOLT DC FUSES
MAIN BREAKER 50 AMP
EACH FUSE TO 12 VOLT DC BRANCH CIRCUITS (FANS, FRIDGE, LIGHTS, ETC.)
EACH CIRCUIT BREAKER TO 120 VOLT AC BRANCH CIRCUITS TYPICALLY 15 AMP BREAKERS (WATER HEATER, MICROWAVE, ELECTRONICS, ETC.)

NOTE: THIS CASE/CHASSIS GROUND SHOULD BE NO SMALLER THAN ONE SIZE LESS THAN THE DC SUPPLY CABLES TO THE INVERTER/CHARGER. SO THAT'S 3/0 OR 4/0 AWG IN THIS EXAMPLE DIAGRAM.