VICTRON ENERGY, INTERNAL BMS BATTERIES, 2x ORION XS 50 AMP DC-DC CHARGER, SOLAR, CERBO GX

VERSION 2 - MARCH 2024

4/0 AWG BATTERY CABLES SHOULD BE AS SHORT AS POSSIBLE AND EQUAL LENGTHS

280Ah, 12-VOLT INTERNAL BMS LITHIUM BATTERY

280Ah, 12-VOLT INTERNAL BMS LITHIUM BATTERY

280Ah, 12-VOLT INTERNAL BMS LITHIUM BATTERY

250 AMP TERMINAL/MRBF FUSE ON EACH BATTERY POSITIVE TERMINAL

4/0 AWG

4/0 AWG

BLUE SEA ML LINK SHOWN BELOW USED FOR THIS SWITCH-TO-LYNX BRIDGE

BATTERY SWITCH (MAIN DISCONNECT)

LYNX SHUNT (SHOWN WITH COVER OFF)

LYNX DISTRIBUTOR (SHOWN WITH COVER OFF)

AN MRBF/TERMINAL FUSE MAY BE USED AT THIS LOCATION NORMALLY USED TO BOLT ON A SECOND LYNX DISTRIBUTOR TO ADD ONE ADDITIONAL FUSED CONNECTION POINT FOR AN AIR CONDITIONER, ETC.

VE.CAN TERMINATOR

R2TO CABLE BETWEEN LYNX SHUNT AND DISTRIBUTOR INCLUDED WITH DISTRIBUTOR

MULTIPLUS II 12/3000/120 INVERTER/CHARGER

FRONT VIEW

BOTTOM VIEW

BLUE SEA 8077 30A BREAKER

10/3 WIRE

FURRION 30A SHORE POWER INLET

HDMI VIDEO/USB POWER FOR TOUCH 50/70 SCREEN

TOUCH 50/TOUCH 70 SCREEEN

VE.BUS FROM MULTIPLUS TO CERBO

10/3 WIRE

6 AWG

4/0 AWG

4/0 AWG

4/0 AWG

VE.CAN FROM LYNX SHUNT TO CERBO

6/3 WIRE

CHASSIS GROUND

CERBO GX OR CERBO-S GX

VE.DIRECT FROM ORIONS TO CERBO

4 AWG FROM ORIONS TO LYNX DISTRIBUTOR - ASSUMES SHORT RUN - <10 FEET

2X ORION XS, 50 AMP DC-DC CHARGERS

UP TO 100 AMPS OF CHARGING FROM THE VEHICLE BATTERY/ALTERNATOR TO THE HOUSE SYSTEM. THE GENERAL GUIDANCE IS TO NOT EXCEED 50% OF THE VEHICLE'S ALTERNATOR CURRENT RATING FOR DC-DC CHARGING. THESE ORION CHARGERS CAN HAVE THEIR OUTPUT CURRENT ADJUSTED DOWN BELOW THEIR 50 AMP RATING USING VICTRON CONNECT.

VE.DIRECT FROM SOLAR CONTROLLER TO CERBO GX

10 AWG CASE GROUND

SOLAR DISCONNECT

ENTRY GLAND

3x 200 12V PANELS SOLAR PANELS
WIRED IN SERIES
2X PAIRS IN SERIES THEN WIRED IN PARALLEL
~80 volts input voltage, ~40 amps charging output @ 12-volt

10 AWG MC4 SOLAR WIRING

WFCO COMBO 120VAC AND 12VDC LOAD CENTER

50A SINGLE POLE MAIN BREAKER

15A OR 20A TANDEM 120VAC BRANCH CIRCUITS

12VDC FUSES FOR BRANCH CIRCUITS

6 AWG

4 AWG FROM LITTELFUSE BOX TO POWER MAIN POWER SYSTEM AREA, UP TO 15' DISTANCE (30' ROUND TRIP)

125 AMP MRBF/TERMINAL OR OTHER EQUIVALENT FUSING FROM BATTERY OR CONNECTION POINT

2 AWG

KEEP THIS WIRE AS SHORT AS POSSIBLE LOCATE FUSE BOX AS CLOSE TO CONNECDTI

VEHICLE BATTERY OR CONNECTION POINT

LITTELFUSE MIDI FUSE BOX (SHOWN WITH COVER OFF)

LOCATE NEAR CONNECTION TO VEHICLE BATTERY SYSTEM

THIS IS ONLY PART OF THE INFO! BE SURE TO CHECK OUT THE BLOG POST THAT ACCOMPANIES THIS POST AND SAVE A TON WITH THE PRODUCT BUNDLE FROM VANLIFE OUTFITTERS THAT INCLUDES EVERYTHING YOU NEED AT THE VERY BEST PRICING AND WORLD-CLASS SUPPORT.

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

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.

VANLIFE OUTFITTERS

SPECIAL BUNDLE PRICE

BEST PRICING!

FAST & FREE GROUND SHIPPING

ADVANCED POWER SYSTEM WITH REMOTE MONITORING

NO SALES TAX TO MOST STATES

WORLD-CLASS SERVICE & SUPPORT

580 AMP HOURS BATTERY STORAGE (7,424 WATT HOURS AT 12.8 VOLTS)

SCAN FOR DETAILS

Pricing and offers subject to change.