

VE.CAN

M8 (3-POLE) CABLES FROM BATTERIES CONNECT TO EACHOTHER (DAISY CHAINED). THEN ONE EXTENSION CABLE IS USED TO CONNECT THE STRING OF BATTERIES TO THE BMS AS SHOWN.

4/0 AWG WIRE

VICTRON SMART LITHIUM BATTERIES 200 AH EACH

RED & BLACK 4/0 AWG CABLES CONNECTING BATTERIES IN PARALLEL

ADDITIONAL BATTERIES CAN BE ADDED

CABLES CONNECTING BATTERIES SHOULD BE EVEN LENGTHS

4/0 AWG WIRE

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SLOW BLOW T-FUSE 400 AMP

BLUE SEA 3000 600 AMP SWITCH

VICTRON LYNX SMART BMS

VICTRON LYNX DC DISTRIBUTOR (SHOWN WITH COVER OFF)

VICTRON SMART BATTERYPROTECT (100 AMP)

SHORE POWER 30 AMP BREAKER

30 AMP SHORE POWER INLET

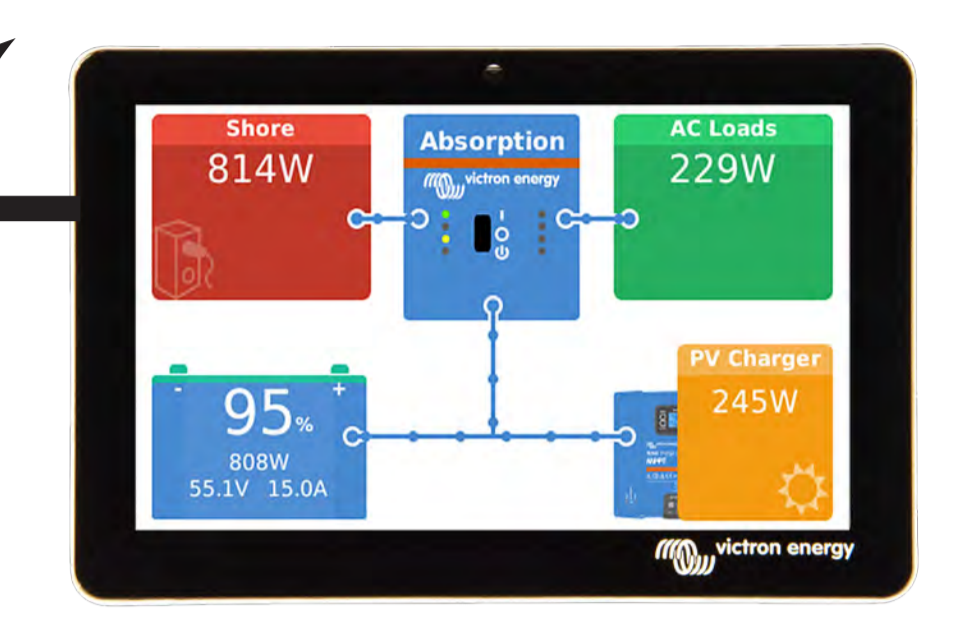
10/3 WIRE

VICTRON MULTIPUS 12/3000/120 2400 WATT INVERTER/CHARGER

HDMI VIDEO AND USB POWER FROM CERBO GX.

USE HIGH QUALITY, SHIELDED HDMI EXTENSION CABLE AND HIGH QUALITY USB EXTENSION

NOTE: THE TOUCH GX CAN BE POWERED FROM ANY USB POWER SUPPLY



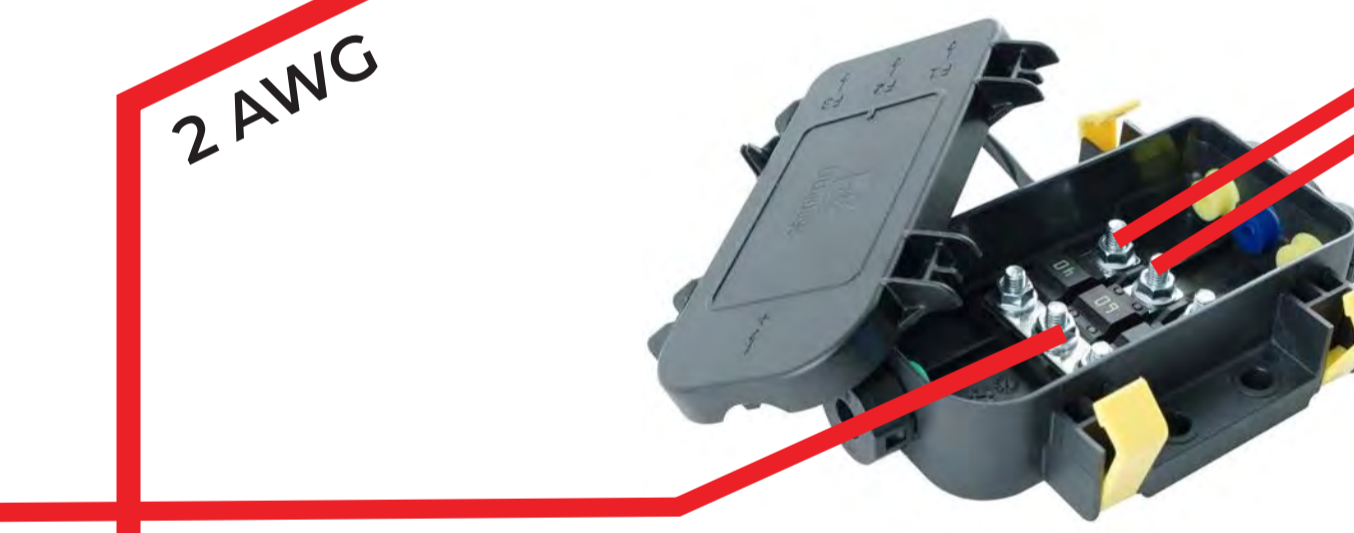
VICTRON CERBO GX

2X VICTRON ORION 30 AMP DC-DC CHARGERS (NON-ISOLATED)



6 AWG

LITTELFUSE POWER DISTRIBUTION MODULES (04980933.X)



DC-DC CHARGING INPUTS

DC-DC CHARGING OUTPUTS

80 AMP MEGA FUSE



VEHICLE BATTERY

10 AWG - CASE/CHASSIS GROUND CONNECTION TO NEGATIVE BUS

CHASSIS GROUND
 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 4/0 AWG IN THIS EXAMPLE DIAGRAM.

GREEN: VE.DIRECT FROM BOTH SOLAR CHARGE CONTROLLERS TO CERBO GX

TERMINAL BLOCK DETAIL/BLOWUP



ALLOW TO DISCHARGE (ATD) TO SMART BATTERYPROTECT "H" TERMINAL

SOLAR ARRAY DISCONNECT SWITCHES, TYPICALLY INSTALLED INTO A BOX WITH A "PIN RAIL".

VICTRON 100/30 SOLAR CHARGE CONTROLLER

VICTRON 100/50 SOLAR CHARGE CONTROLLER

10 AWG

~20 FEET 10 AWG CABLES RED W/ FEMALE MC4 BLACK W/ FEMALE MC4 FROM "ENTRY GLAND" TO CHARGE CONTROLLERS

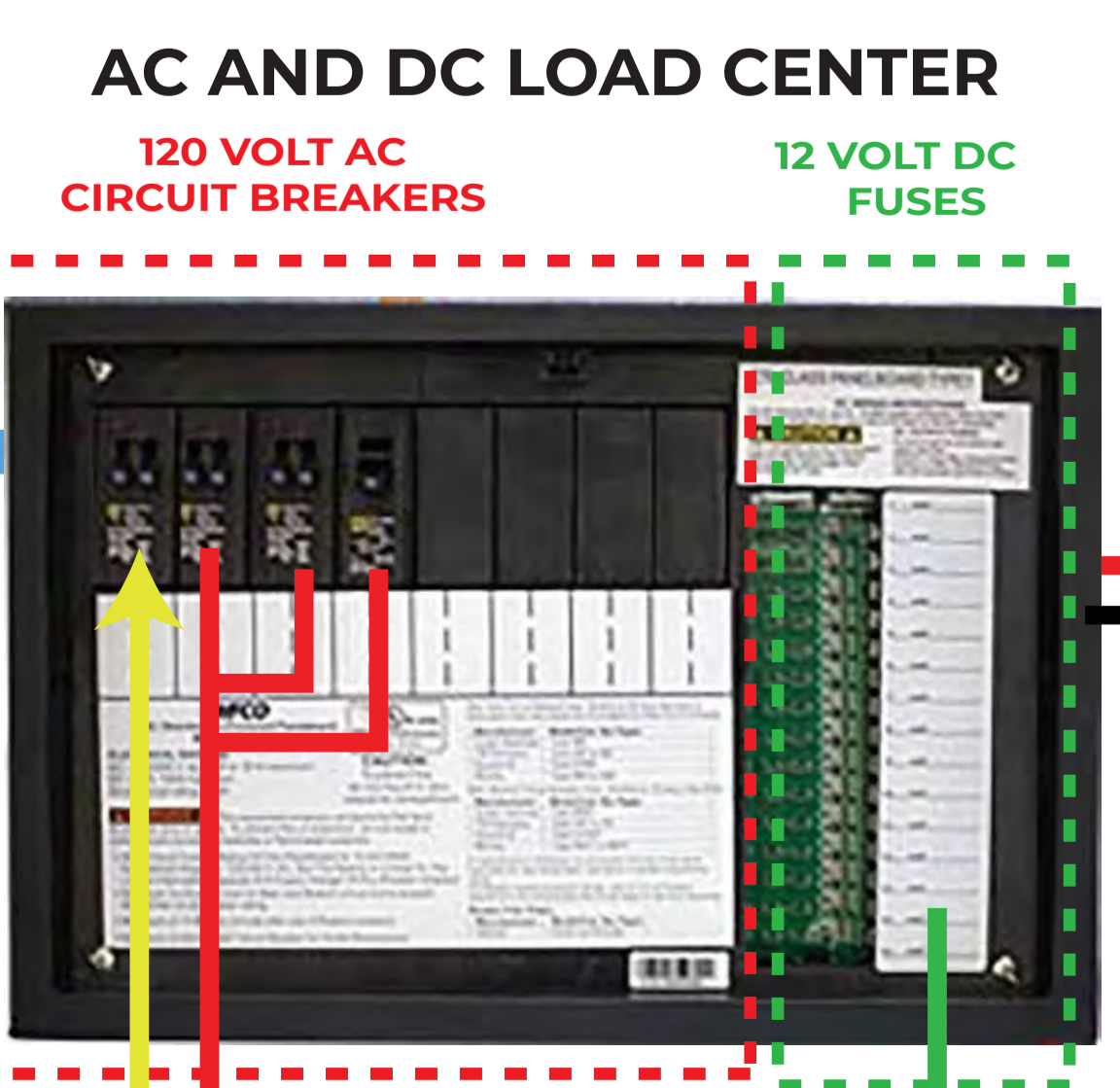
2x 200 WATT RENOGY SOLAR PANELS WIRED IN SERIES



10 AWG WIRE WITH MC4 CONNECTORS ROUTED THROUGH ROOF WITH AN "ENTRY GLAND"

2x 60 WATT RICH SOLAR PANELS WIRED IN SERIES

WHY TWO SOLAR CHARGE CONTROLLERS?
 Generally speaking you shouldn't mix solar panels of varying characteristics on the same array. If you have different types of panels, it's best to wire them to different/distinct solar charge controllers.



AC AND DC LOAD CENTER

120 VOLT AC CIRCUIT BREAKERS

12 VOLT DC FUSES

50 AMP MAIN BREAKER

15 OR 20 AMP 120VAC BRANCH CIRCUITS

12VDC FUSES TO BRANCH CIRCUITS