1/0 AWG

PRE-MAIN FUSE

400A ANL FUSE

4 AWG

100mA FUSE

1/0 AWG

BLUE SEA 6006

4/0 AWG

DC DISCONNECT

KEEP POSITIVE BATTERY CABLES ALL AS SHORT AS POSSIBLE AND ALL AT THE SAME LENGTH

MAIN DC DISTRIBUTION

120A BREAKER

MPPT+

4 AWG

300A FUSE

MultiPlus Batt +

1/0 AWG

4/0 AWG

300A FUSE

MultiPlus Batt +

1/0 AWG

MPPT CHARGE CONTROLLER

victron energy

SmartSolar charge controller

MPPT 250 | 100 - Tr VE.Can

BATTERY PV

10 AWG PV CABLES - ~100'

PV BREAKER ISOLATOR

CURRENT RATING: 32A

MIDNITE SOLAR PV COMBINER BOX

10 AWG PV CABLES

LITHIUM BATTERIES (24VDC)

2 X SERIES / 2 X PARALLEL

GC3 12VDC 270Ah LiFePO4

BATTLE BORN BATTERIES

GC3 12VDC 270Ah LiFePO4

GC3 12VDC 270Ah LiFePO4

GC3 12VDC 270Ah LiFePO4

CENTRAL NEGATIVE BUSBAR

600A/70V

TO EQUIP GROUNDING ROD

MPPT-

MultiPlus Batt-

MultiPlus Batt-

MultiPlus Case GR

MultiPlus Case GR

SHUNT IS MOUNTED DIRECT ON BUSBAR

-B2

-B1

1/0 AWG

1/0 AWG

KEEP POSITIVE BATTERY CABLES ALL AS SHORT AS POSSIBLE AND ALL AT THE SAME LENGTH

MULTIPLUS 3KW/24V/120V AC INVERTER/CHARGER

①

victron energy

charger inverter

MultiPlus 24|3000|70

AC transfer capacity: 50A | Inverter 120V

MULTIPLUS 3KW/24V/120V AC INVERTER/CHARGER

②

victron energy

charger inverter

MultiPlus 24|3000|70

AC transfer capacity: 50A | Inverter 120V

Conn-G Batt+

Conn-G Batt+

Conn-F Batt-

Conn-F Batt-

Conn-L Case Ground

Conn-L Case Grou nd

BATTERY MONITOR

SUPPLIED UTP CABLE

AC OUT-2

AC OUT-1

3 PORT INSULATED MULTITAP CONNECTOR

120VAC TO MAIN SERVICE PANEL

3200W PV ARRAY

SETUP: 4 STRINGS (4X PARALLEL)

24VDC 200W

CONTINUOUS PV/FRAME GROUND CONNECTION

TO ARRAY GROUNDING ROD