MAIN SWITCH-3

PRE-MAIN & MAIN FUSE THRUSTER BATTERIES

SPARE-xxA FUSE

THRUSTER BATTERIES

MAIN DC DISTRIBUTION THRUSTER

Bow Thruster +

Argo Fet Out-2 +

Charger Output-1 +

BOW THRUSTER

CENTRAL NEGATIVE THRUSTER

Bow Thruster -

MPPT

PV ARRAY

PV BREAKER ISOLATOR

Charge light

IGNITION

FUSE xx AMP

ENGINE SYSTEM

ARGOFET BATTERY ISOLATOR

ALTERNATOR

INTERNAL ALTERNATOR FUSE

ALTERNATOR 12V-80A

STARTER-MOTOR

FROM STARTER+(30)

STARTER MOTOR

MAIN SWITCH-2

MAIN DC DISTRIBUTION ENGINE

Charger Output-3 +

Argo Fet Out-1 +

MAIN DC DISTRIBUTION

Load/Breaker Panel +

Argo Fet Out-3 +

Inverter +

MPPT +

Charger Output-2 +

MAIN SWITCH-1

PRE-MAIN-FUSE SERVICE BATTERIES

SPARE-xxA FUSE

BMV-100mA FUSE

Service & Thruster busbars-

IP43 SMART CHARGER 12V-50A 3 OUTPUTS

INVERTER 12V-800W

STARTER BATTERY

12V-100Ah

Starter Battery

BMV-B2 / 100mA FUSE

SERVICE BATTERIES

CENTRAL NEGATIVE BUSBAR SERVICE

Spare

Spare

ARGO FET -

Load -

MPPT -

Thruster Batteries -

Starter Battery -

Load/Breaker panel -

Inverter -

Inverter Case GR

IP43 Smart Charger -

SHUNT IS MOUNTED DIRECT ON BUSBAR

Smart Battery Sense

Smart Battery Sense-1A FUSE

BMV-712 SMART

Drawing BJE-272A

SUPPLIED UTP CABLE

Charger bow +

Inverter +

Charger serv. +

Charger start +

AC input charger

Starter Batt+

Inverter -

Inverter Case ground

IP43 Smart Charger -

AC DISTRIBUTION

MCB/RCD

SHORE POWER

INVERTER OUTPUT

ISOLATION TRANSFORMER OR GALVANIC ISOLATOR SHOULD BE INSERTED HERE IF NEEDED, INCLUDING NECESSARY BREAKERS.

230V SHORE POWER CONNECTION

VE.Direct Bluetooth dongle Inverter

IP43 Smart Charger

Small Geyser

No Break load

VE.Smart Network setup with VictronConnect App
All Bluetooth accessible devices can be setup and added to your local VE.Smart Network by using the freely downloadable VictronConnect App. When in doubt how to do this, consult your Victron dealer.

Recommended DC cable/fuse size IP43 Smart charger
50A charger 0-4 m cable length: 16SQmm/output Cable length stands for the total distance between the battery connections plus/minus and the charger connections ! Fuse size should be 60-80A max. Max cable size to connect is 16SQmm. Longer lengths for instance for the bow thruster batteries can be used by fitting a larger diameter in between according to the length needed.

Recommended DC cable/fuse size Inverter
800W Inverter with 0-1,5 m cable length: 16SQmm 800W Inverter with 1,5-3 m cable length: 25SQmm Cable length stands for the total distance between the battery connections plus and minus and the Inverter connections ! External Fuse size should be 80-100A max.

Recommended AC cable/breaker sizes
AC Shore power IN must be protected by a MCB/RCD circuit breaker rated at 16A max or less depending on the size of the connected users. AC Inverter OUT must be protected by a MCB/RCD circuit breaker combination rated at the size of the Inverter. Cable sizes need to be adjusted accordingly.

WARNING
230 VOLT IS EXTREMELY HAZARDOUS DO NOT TOUCH ANY LIVE WIRED PARTS OF THE INSTALLATION ! WHEN IN DOUBT, ALWAYS CONSULT YOUR VICTRON DEALER !