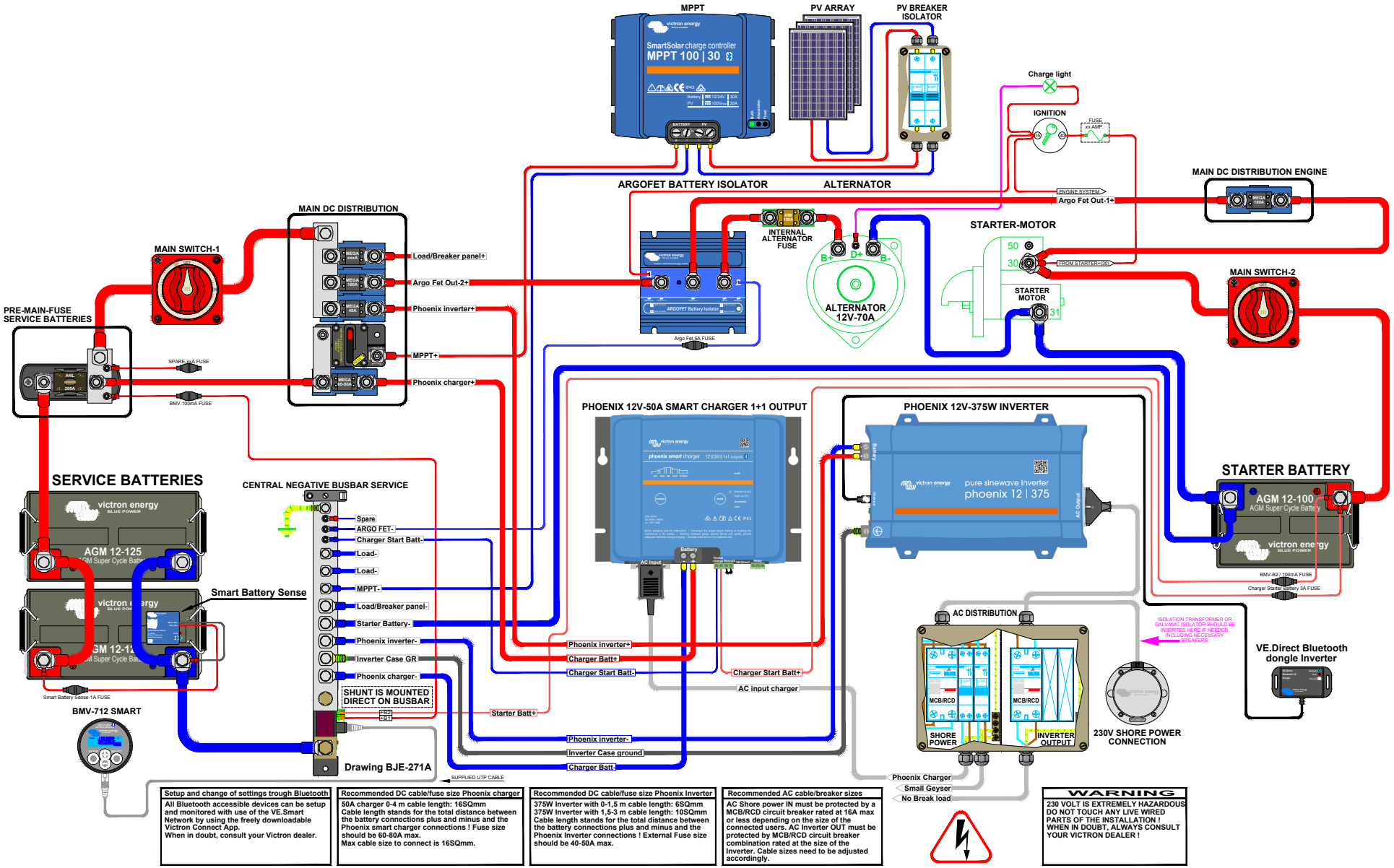
MPPT
SmartSolar charge controller
MPPT 100 | 30
PV ARRAY
PV BREAKER ISOLATOR
Charge light
IGNITION
FUSE xx AMP
MAIN DC DISTRIBUTION ENGINE
ENGINE SYSTEM
Argo Fet Out-1+
ARGOFET BATTERY ISOLATOR
ALTERNATOR
INTERNAL ALTERNATOR FUSE
B+
D+
B-
ALTERNATOR 12V-70A
STARTER-MOTOR
50
30
31
FROM STARTER+30
STARTER MOTOR
MAIN SWITCH-2
MAIN DC DISTRIBUTION
Load/Breaker panel+
Argo Fet Out-2+
Phoenix inverter+
MPPT+
Phoenix charger+
MAIN SWITCH-1
PRE-MAIN-FUSE
SERVICE BATTERIES
SPARE 30A FUSE
BMV-100mA FUSE
Argo Fet 5A FUSE
PHOENIX 12V-50A SMART CHARGER 1+1 OUTPUT
PHOENIX 12V-375W INVERTER
pure sinewave Inverter
phoenix 12 | 375
STARTER BATTERY
AGM 12-100
AGM Super Cycle Battery
BMV-B2 / 100mA FUSE
Charger Starter Battery 3A FUSE
SERVICE BATTERIES
AGM 12-125
AGM Super Cycle Battery
CENTRAL NEGATIVE BUSBAR SERVICE
Spare
ARGO FET-
Charger Start Batt-
Load-
Load-
MPPT-
Load/Breaker panel-
Starter Battery-
Phoenix inverter-
Inverter Case GR
Phoenix charger-
SHUNT IS MOUNTED DIRECT ON BUSBAR
TB2
TB1
Smart Battery Sense
Smart Battery Sense-1A FUSE
BMV-712 SMART
Drawing BJE-271A
SUPPLIED UTP CABLE
Phoenix inverter+
Charger Batt+
Charger Start Batt-
Starter Batt+
Phoenix inverter-
Inverter Case ground
Charger Batt-
Charger Start Batt+
AC input charger
AC DISTRIBUTION
MCB/RCD
MCB/RCD
SHORE POWER
INVERTER OUTPUT
230V SHORE POWER CONNECTION
ISOLATION TRANSFORMER OR GALVANIC ISOLATOR SHOULD BE INSERTED HERE IF NEEDED, INCLUDING NECESSARY BREAKERS.
VE.Direct Bluetooth dongle Inverter
Phoenix Charger
Small Geyser
No Break load
Setup and change of settings trough Bluetooth
All Bluetooth accessible devices can be setup and monitored with use of the VE.Smart Network by using the freely downloadable Victron Connect App.
When in doubt, consult your Victron dealer.
Recommended DC cable/fuse size Phoenix charger
50A charger 0-4 m cable length: 16SQmm
Cable length stands for the total distance between the battery connections plus and minus and the Phoenix smart charger connections ! Fuse size should be 60-80A max.
Max cable size to connect is 16SQmm.
Recommended DC cable/fuse size Phoenix Inverter
375W Inverter with 0-1,5 m cable length: 6SQmm
375W Inverter with 1,5-3 m cable length: 10SQmm
Cable length stands for the total distance between the battery connections plus and minus and the Phoenix Inverter connections ! External Fuse size should be 40-50A 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 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 !