



- 1) Both Plus cables from Batteries to Master LV must have the same length
- 2) Both Minus cables from Batteries to Master LV must have the same length

**\*ITR AC In Fuse/Cable Size**  
 The AC Input must be protected by a Circuit Breaker (MCB) rated at 16A (at 230VAC) or 32A (at 115VAC). The cable cross-section for the AC Input must be sized accordingly.

**\*MultiPlus AC In Fuse/Cable Size**  
 The AC Input must be protected by an Earth-Leakage Device (RCD) and a Circuit Breaker (MCB) or a RCD/MCB Combi (RCBO) rated at 16A. The Input Current must be adjusted to fit the power of the connected AC Input source. The cable cross-section for the AC Input must be sized accordingly.

**\*MultiPlus AC Out 1 Fuse/Cable size**  
 A Circuit Breaker (MCB) rated at max. 25A must be installed on the AC Output. The cable cross-section must be sized accordingly.

**Disclaimer:** This drawing is intended as a guideline for installing and setup the system only. No rights can be derived from the drawing and additional setup information. It is prohibited to use the drawing and setup for systems or companies other than the stated company and project. The installation and recommended setup should be performed by a qualified electrician. Installing the system requires specialized skills and knowledge of all system components. Before installation the manuals of all components should be read and understood. The installation and recommended setup should be performed by a qualified electrician. After installation all protection and control wiring functions must be checked and approved for a correct and safe functioning of this system. If any doubt about the installation or setup, consult Top Systems for advice.

v1	For Approval	24-11-2022	HR	FG
STATE	ALTERATION	DATE	DRAWN	CHECKED



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 PROJ.No. A2022111 / 109712

Expedition Camper System  
 DWG.No. MEIJERINK\_Syst

<b>MultiPlus 24/5000/120-100 Setup</b>
Update to last firmware version (2614.500)
<b>Charger Settings</b>
Absorption Voltage: 28.20 V Float Voltage: 28.20 V Max. Absorption Time: 1 Hr Storage Mode: OFF Lithium Batteries: ON Charge Curve: Fixed Charge Current: 100 A Temperature Comp: -0.0 mV/deg (Off)
<b>Grid Settings</b>
UPS Function: OFF
<b>Inverter Settings</b>
Ground Relay: OFF
<b>General Settings</b>
Shore limit Set AC1 input current limit to: max. 16A.

<b>Cerbo GX Setup</b>
Update to latest firmware version (2.92)
<b>System setup</b>
AC Input 1: Shore power Battery monitor: MG BMS 24-48V/400A on VE.Can
<b>DVCC</b>
DVCC: ON Limit charge current: OFF SVS - Shared voltage sense: OFF STS - Shared temperature sense: OFF SCS - Shared current sense: ON

<b>BlueSolar MPPT 150/60-MC4 Setup</b>
Update to latest firmware version (1.61)
<b>Battery</b>
Battery Voltage: 24V Battery preset: User defined Absorption Voltage: 28.20 V Maximum Absorption Time: 1h 0m Float Voltage: 28.20 V Temperature Compensation: Disabled Low Temperature Cut-off: Disabled

<b>TS1600-2 Setup (TSConfig 2.2.4.0)</b>
Load Settings -> 24V-24V default settings
(20) Output voltage: 28.2 V (out)
<b>Settings for Float mode</b>
(90) Conv. voltage in float mode: 28.20 V (91) Battery fully charged voltage: 28.00 V (22) Maximum output current: 50 A (out) (29) Victron bms lithium protection: ON (31) Battery voltage charge protection: OFF (50) Conv. on/off with vibration sensor: ON Converter on/off by input voltage: ON

<b>ITR 3600W Auto 115/230V Setup</b>
Settings must be checked with ITR Manual
<b>Input Voltage (115/230V)</b>
Auto 115/230V
<b>Output Voltage (230V)</b>
1 Jumper for 230V Output
<b>Output Neutral Grounding</b>
1 Jumper for Neutral Grounding (J21-J33)

<b>MG Master LV 24/48V-400A Setup</b>
Update to latest firmware version (1.31) Diagnostic Tool: 2.31 Battery firmware: 1.5
<b>Diagnostic Tool Settings</b>
LV Interlock/Emergency enabled: No Number of batteries in series: 1 Number of batteries in parallel: 2 Start up when charger is detected: No Bluetooth on Master LV: On

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