

## FEATURES OF POWER UNIT Mod. AL310X

### **Model AL310X**

The power unit model AL310X is a device designed for energy control; it features the possibility to switch and adjust the various sources of energy available supplying stable and safe power on the outputs.

In a Motorhome we typically have the following sources of energy:

1. Engine battery/ies;
2. Services battery/ies;
3. Alternator;
4. External Electricity Mains;
5. Solar Panels;
6. Generating set;
7. Alternative sources (Wind generators, etc..)

And the outputs are typically considered:

- Services (the whole home cell at 12 V)
- Fridge

### **Specifications**

#### Electric

The electric specifications of the device are the following:

- Supply voltage: 110-220 V, 50-60 Hz. In accordance with regulations
- Rated power: 150 VA of battery charger @ 13.5 V.
- Services output : 13.5 Volts 30 Amperes.
- Fridge output : 13.5 Volts 20 Amperes.
- SMART active protections.
- If connected to the 110/220V external mains, the power unit delivers power even if the batteries are not connected

#### Sizes

Container: 220x195x82 Weight Kg. 1.5

#### Connections

- Cable (L. 150 cm) for connection to the 110/220V Mains, with selector, 50 – 60 Hz with Schuko plug
- I. ***J1 Molex caimano mlx 94213 - 2014*** (connector “S” used for connecting the services battery), colour: white
- contact No.4 → Negative
  - contact No.3 → Not Used
  - contact No.2 → Positive (+12)
  - contact No.1 → Not Used

II. **J2 molex caimano mlx 94213 - 2014** (connector “M” used for connecting the engine battery and engine on signal) colour: red

- contact No.4 → Negative
- contact No.3 → Not Used
- contact No.2 → Positive (+12)
- contact No.1 → D+ (Engine on signal)

III. **J3 molex caimano mlx 94213 - 2014** (connector “B” used for distributing energy to the home cell) colour: black

- contact No.4 → Negative
- contact No.3 → Bus\_B
- contact No.2 → Positive (+12)
- contact No.1 → Bus\_A

IV. **J4 molex caimano mlx 94213 - 2014** (connector “F” used for connecting to the Fridge; **not to be used for assembly of Fridge AES**) colour: green

- contact No.4 → Negative
- contact No.3 → Positive +12 (Power)
- contact No.2 → Positive (+12) (Low Power)
- contact No.1 → Aux

V. **J5 Amp Mate-N-Lock 2x1** (connector “P” used for connecting the solar panel)

- contact No.1 → Negative
- contact No.2 → Positive

### **Conformity**

The device meets the requirements of European Union Directive: 89/336 EMC Electromagnetic Compatibility, 73/23 and 93/68 EEC Safety of Electrical Products.

### **Advice**

Before doing any maintenance work disconnect the 110/220V mains and all sources of energy. Install the device in a dry, sufficiently ventilated place.

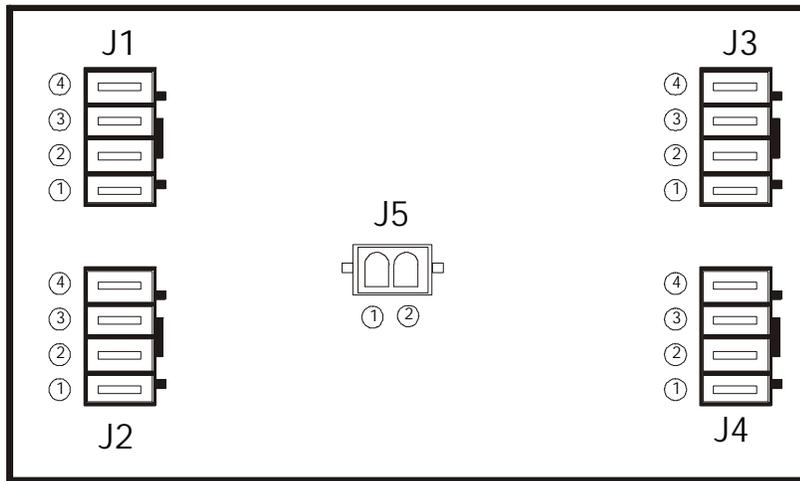


Fig. 1 "Connector Layout – Power Unit AL310X"

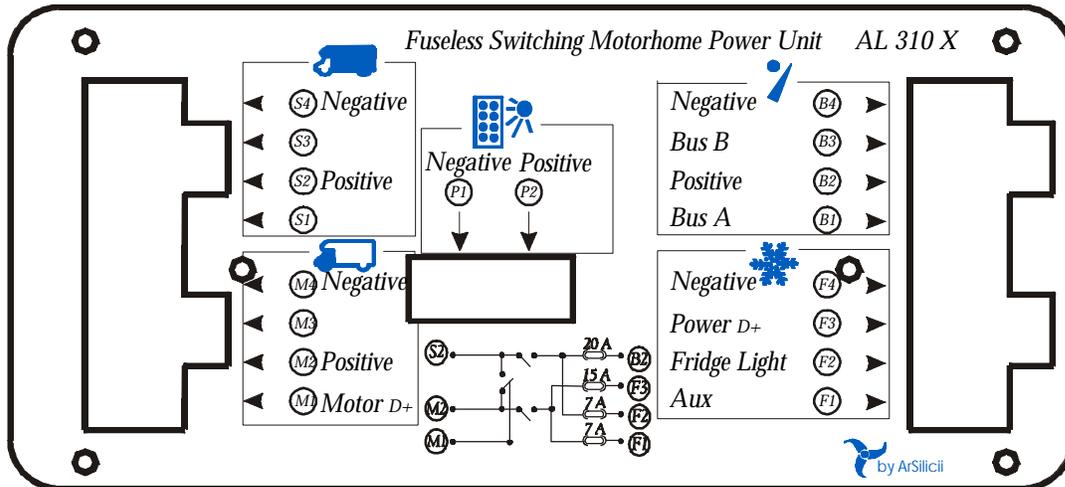


Fig. 2 "Power Unit AL310X Serigraph"