STANPRO

INSTALLATION AND OPERATING INSTRUCTION

Emergency lighting power supply units

CONTENTS

SYSTEM INSTALLATION

1. Safety Information

1. Do not let power cords touch hot surfaces.
2. Do not install near gas or electric heaters.
3. The use of accessory equipment not recommended by manufacturer, may cause an unsafe condition, and will void the unit's warranty.
4. Do not use this equipment for other than its intended purpose.
5. Servicing of this equipment should be performed by qualified service personnel.
6. To be considered in the end, used based on the application.

2. System requirements and limitations

Note that the system as specific requirements and limitation that needs to be observed for it to work has intended. Otherwise, the system will detect this as an issue and will need to be adjusted properly before commissioning.

- 120/277/347 VAC input.
- 144W maximum load split across 6 inputs (channels).
  - Can be extended to 180W with additional batteries pack.
- Each channel cannot exceed 54W load or 20 devices.

3. Housing assembly and installation

3.1 Main Housing installation

The housing has mounting holes on the rear; they are to mount the system onto a wall or special base frames. The holes must be drilled in accordance with the drill holes gaps on the rear of the system. The dimensions are listed in **Figure 1.1**. Fasteners and screws that are suitable for the condition of the wall or substructure, as well as for the system's weight must be used for fastening.

If your system comes with an additional batteries pack, the batteries pack housing will be mounted directly underneath the battery unit. See **Figure 1.1** for reference.

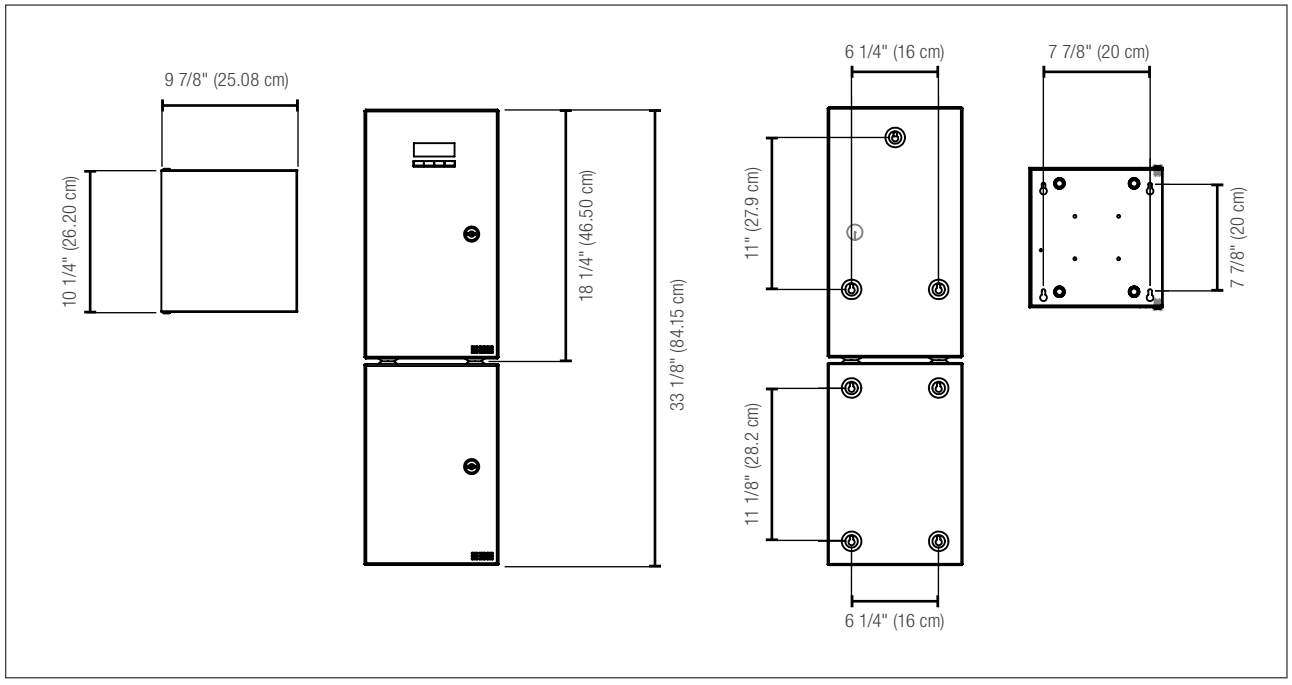

Figure 1.1

3.2 Transformer housing installation

This battery unit comes with a separate transformer. The transformer housing needs to be installed in close proximity of the battery units, but should be at least 6” from the battery units or other electrical equipment.

3.3 Devices Installation

There is no change in the installation of signs and remotes compatible with this system other than the only requirement of DC wiring for signs instead of both AC and DC wiring. For this reason, you can refer to the installation instruction sheet provided with each of the compatible signs and remotes.

IMPORTANT: Tables for each item will be provided to the person in charge of the project. Those tables should be filled properly to simplifying the commissioning process. (See **Figure 1.2**) Each device as a unique ID# that need to be match to his location. The more precise those locations are the easier it will be for commissioning and future maintenances. Note that the "driver unique ID" will be provided already populated, only the installation location need to be added.

CORRELATION TABLE

ORDER: _____

MATERIAL: _____

Order QTY: _____

DRIVER UNIQUE ID	INSTALLATION LOCATION

Figure 1.2

4. System wiring and connections

4.1 System and devices wiring

You can refer to **Figure 2.1** for system and devices wiring. Please make the proper connection between the incoming AC supply and the transformer based on your input voltage. You can refer to the wiring information on the transformer for those connections.

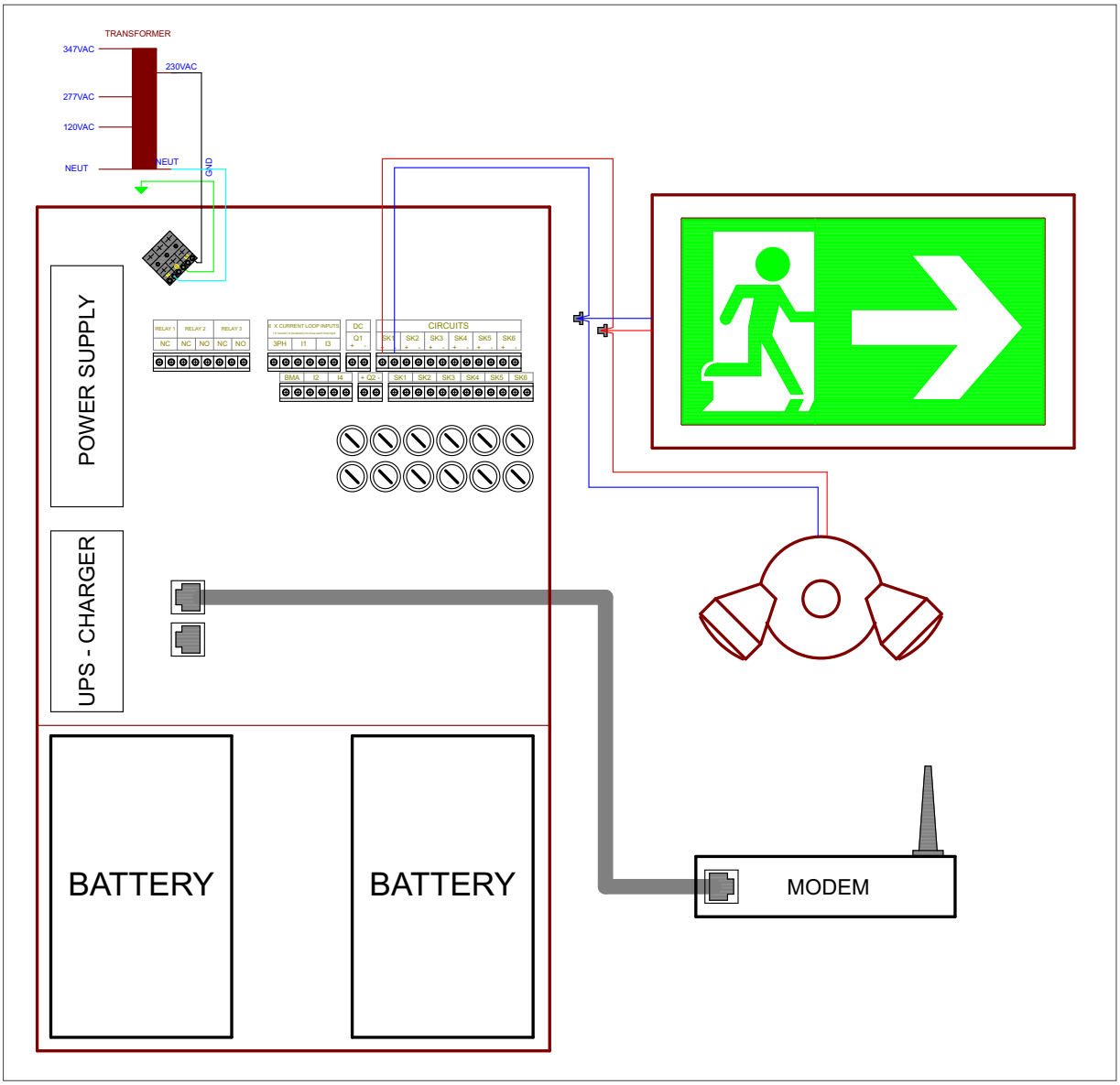

Figure 2.1

4.2 Battery unit wiring

Before proceeding to the wiring of the battery unit, make sure that the transformer box is unpowered or temporarily disconnected.

A. Insert the electrical circuit wires through the holes at the top of the housing. Then connect each electrical circuit in EC1 to EC6. (please refer to **#1** of **Figure 2.2**) Note[1]: The terminal blocks accept 18AWG to 14AWG, for 12AWG or 10AWG wire gauge reducer are included with the system.

B. Connect the battery connector. (Please refer to **#2** of **Figure 2.2**)

C. Connect the Ethernet port in RJ45 connector Port 1. (Please refer to **#3** of **Figure 2.2**)

D. For specific application only, relay outputs are required. If relay outputs are required, proceed with the connection. Note that relay 1 is normally open contacts; relay 2 & 3 are changeovers. (please refer to **#4** of **Figure 2.2**)

E. For specific application only, switches are required. If switches are used, proceed with the connection by using I1 to I4. (Please refer to **#5** of **Figure 2.2**)

F. Connect the main power cord from the transformer box. (please refer to **#6** of **Figure 2.2**

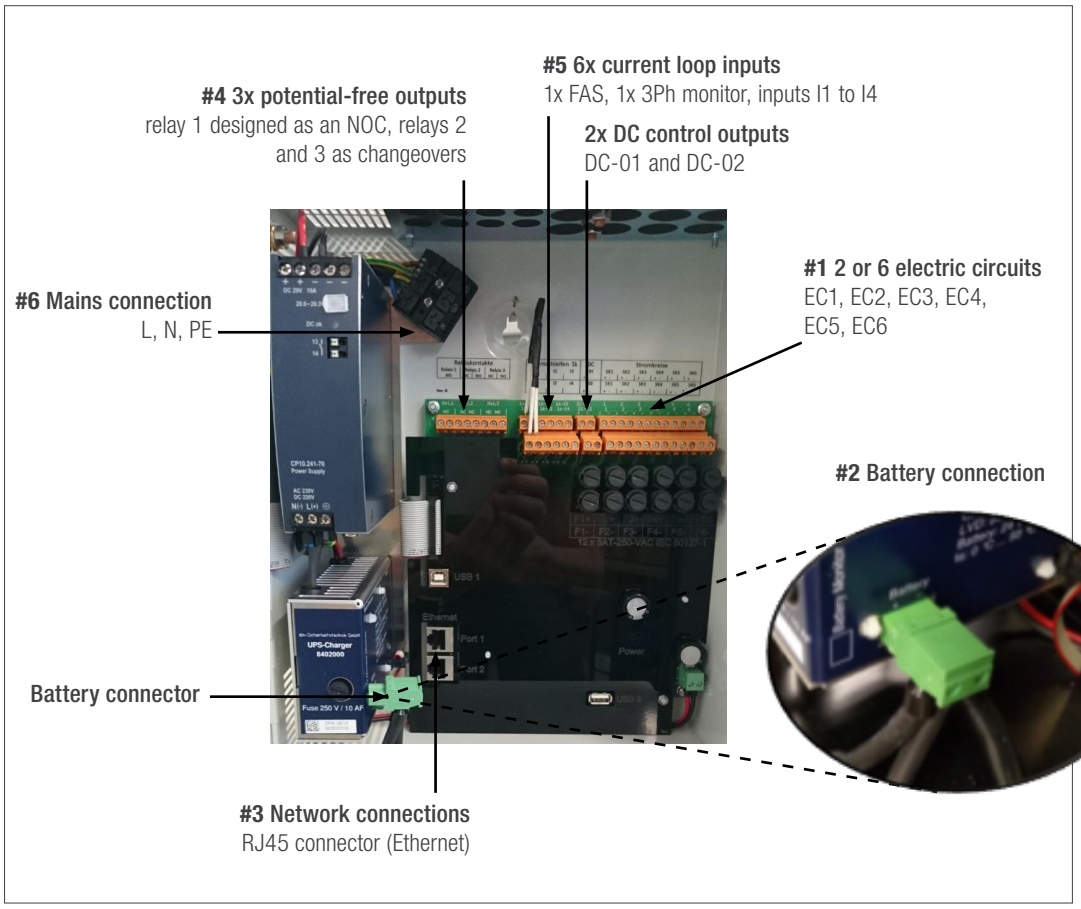

Figure 2.2

4.3 Multiple battery units wiring

For multiple battery units configurations, you can daisy chain their Ethernet port as seen on figure **Figure 2.3**.

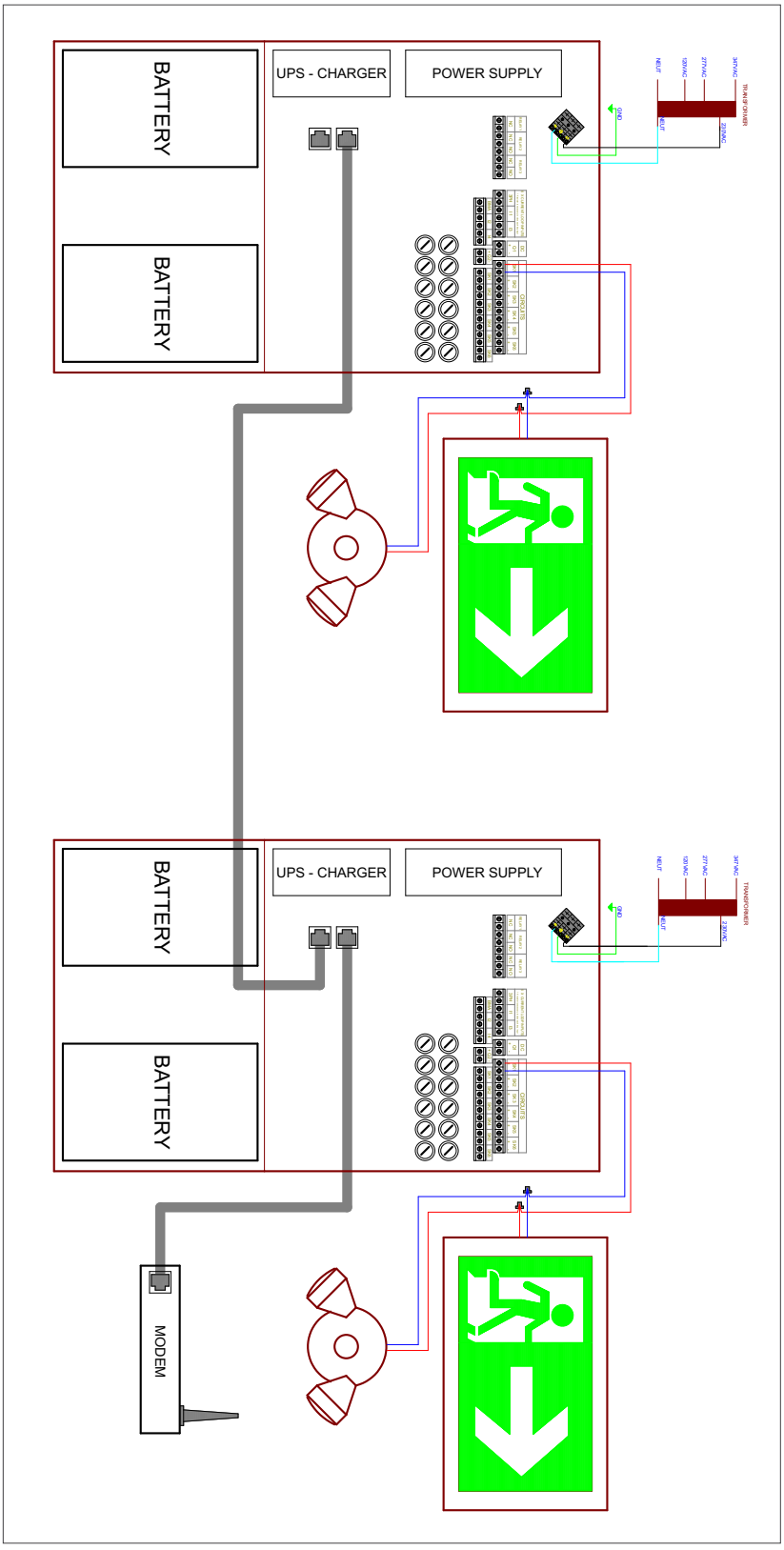

Figure 2.3