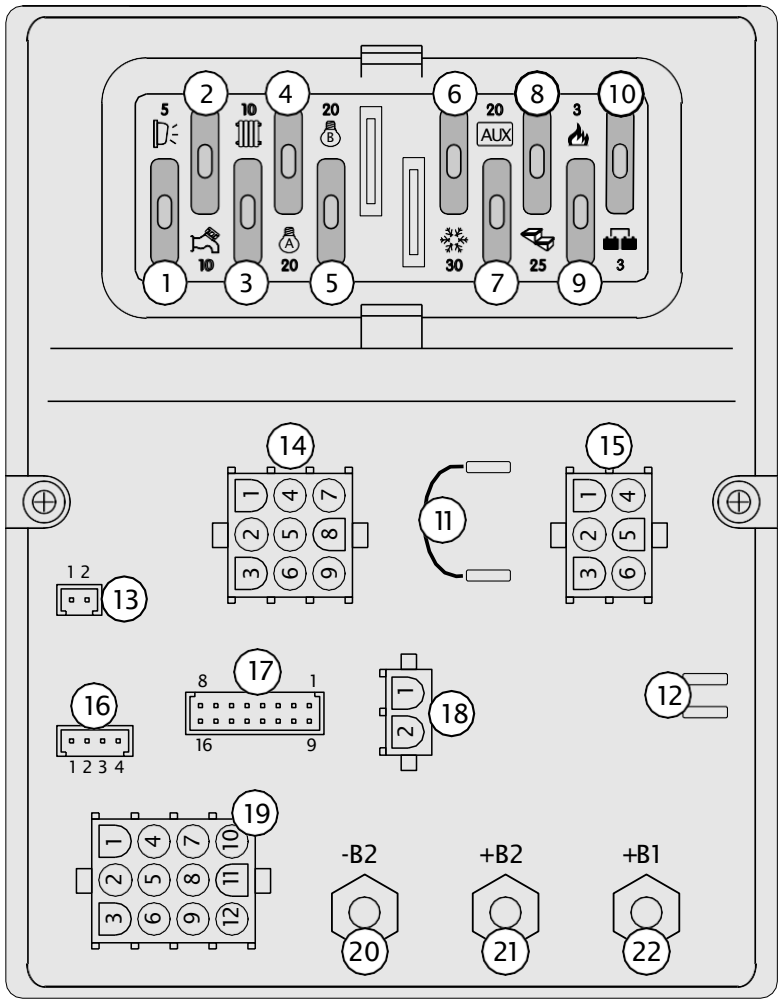
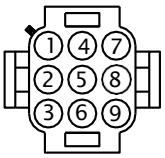
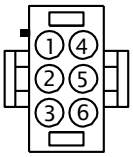
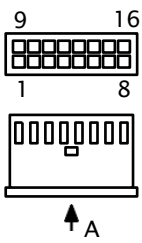
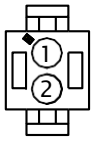
"DS-300" DISTRIBUTION BOX

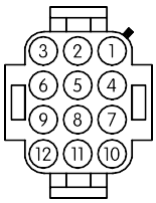
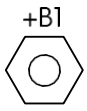


1) 5A fuse to give power to the awning light, it depends on the main switch and it switches automatically off when the engine is started.
2) 10A fuse to give power to the water pump, it depends on the main switch.
3) 10A fuse to give power to the heating/boiler, it depends on the lights main switch.
4) 20A fuse to give power to the lights group "A", it depends on the main switch.
5) 20A fuse to give power to the lights group "B", it depends on the main switch.
6) 30A fuse to give power to 12V AES or 3-way function fridge. The 3-way function fridge switches automatically off when the engine is off.
7) 20A fuse for the auxiliary power supply (solar regulator), which is directly connected to the leisure (B2) battery.
8) 25A fuse for the electrical step power supply, connected directly to the leisure (B2) battery.
9) 3A fuse for the gas power supply (fridge, kitchen, boiler valve, etc.), Connected directly to the leisure (B2) battery.
10) 3A fuse for OUT D+ simulated exit protection.
11) AES fridge connection; It is a bridge, which excludes the 3 way function fridge and is used to connect the AES fridge directly to the B2.
12) Simulated output D+ alternator to control the electrical step, AES refrigerator, electrical draining valve, coming-back of the electrical antenna.

CONNECTIONS

14 WHITE 	MAINS 1) + output heating, it depends on the main switch ON/OFF. 2) + output water pump - toilet, it depends on the pump switch. 3) + output awning light, it depends on the awning switch. 4-5-6) + output lights group ”A”, it depends on the lights switch. 7-8-9) + output lights group ”B”, it depends on the lights switch.	FUSE (rif.) 3 2 1 4 5
15 WHITE 	MAINS 1) + output aux (solar regulator), direct B2. 2-3) + output "3 way function / AES refrigerator" 4) + output electric step (direct B2). 5-6) + output gas mains’ supply (fridge, kitchen, boiler valve).	**FUSE (rif.)** 7 6 8 9

13 BLACK 	WASTE WATER TANK To connect to the waste water tank probe.
16 BLACK 	DRINK WATER TANK To connect to the drink water tank probe.
17 BLACK 	CONTROL PANEL To connect to the 16 poles connector of the control panel.
18 WHITE 	SIGNALS 1) + input signal contact key engine starting. 2) + input signal “S” net coming from the CBE battery charger

19 WHITE 	MASSES To connect to the mains' masses.
20 	MASSES To connect to the negative pole of the services battery or to the chassis of the vehicle.
21 	SERVICES BATTERY To connect to the positive pole of the services battery.
22 	CAR BATTERY To connect to the positive pole of the car battery.

ENGLISH

FUNCTIONS

CAR BATTERY (B1) RECHARGING

When the battery charger is charging, an electronic device allows a recharging (max 2A) of the car battery (B1), the system gives priority to the leisure battery (B2).

LEISURE BATTERY (B2) RECHARGING

a) by alternator: through the separating relais, when the engine is started. The +KEY engine starting controls electronically a small relais which controls the other relais: parallel, fridge, awning light, etc.

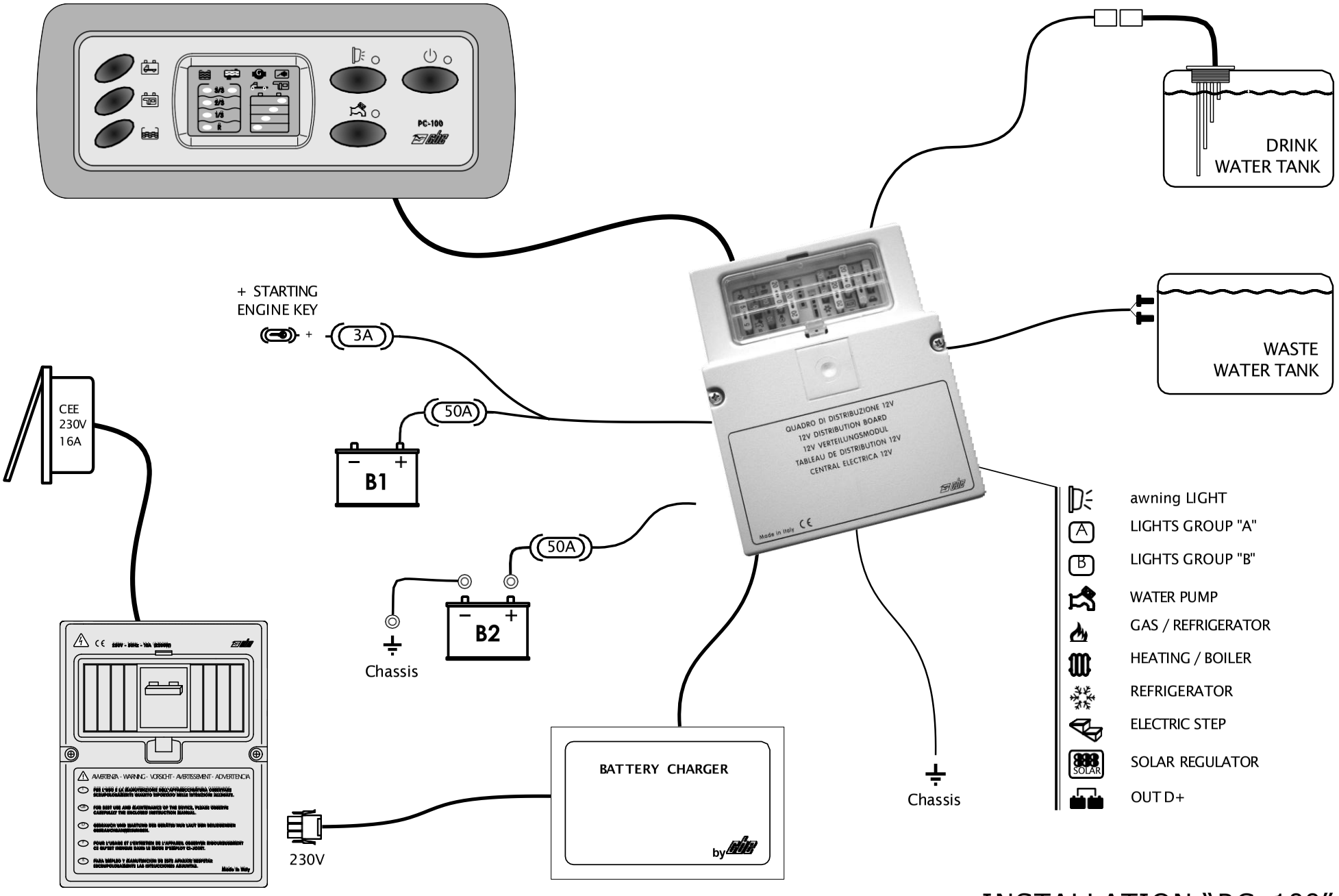
b) by 230V net: buffer system through battery charger (see "*battery charger*").

c) by solar panel: through a solar regulator.

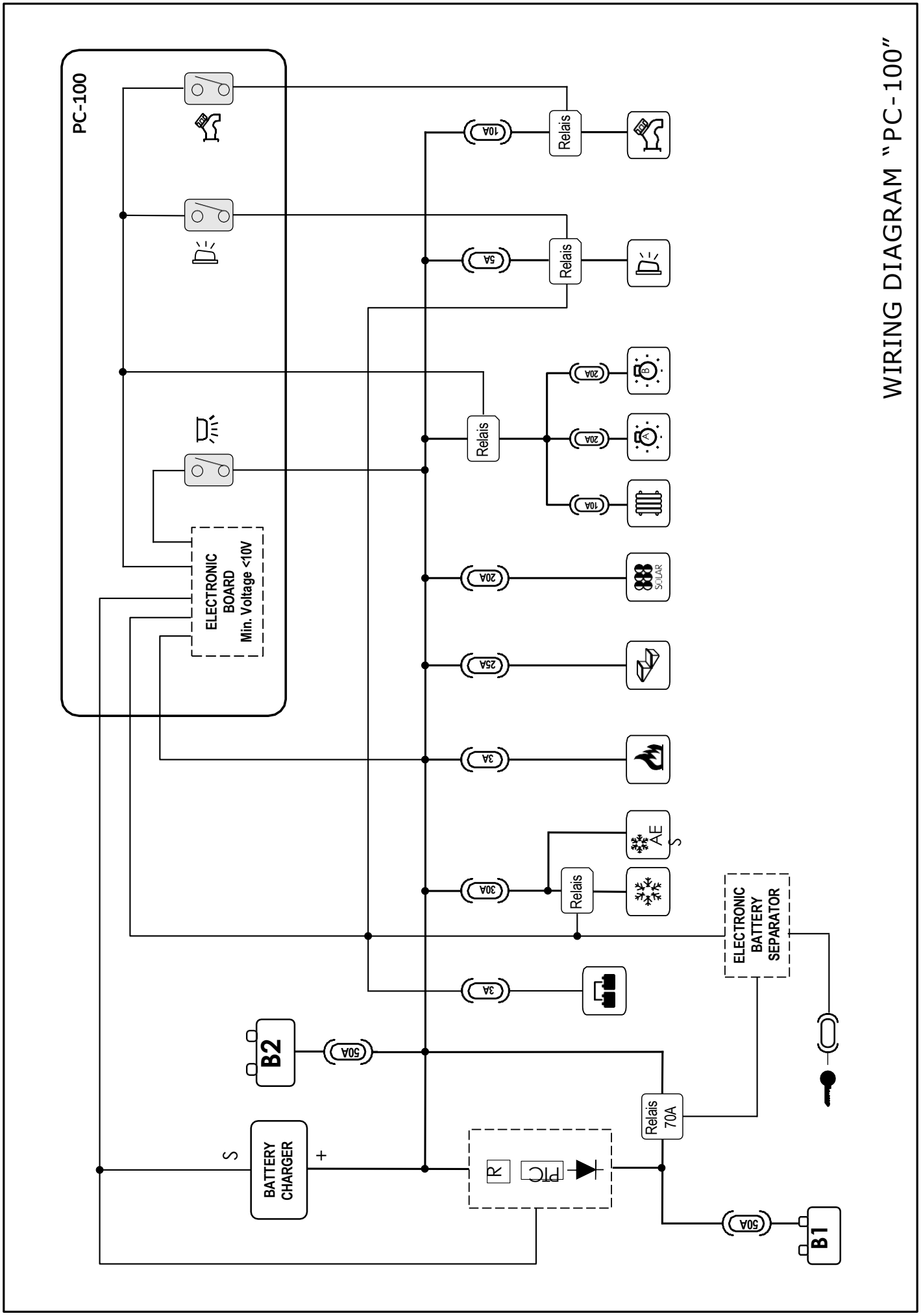
ELECTRONIC BATTERY SEPARATOR

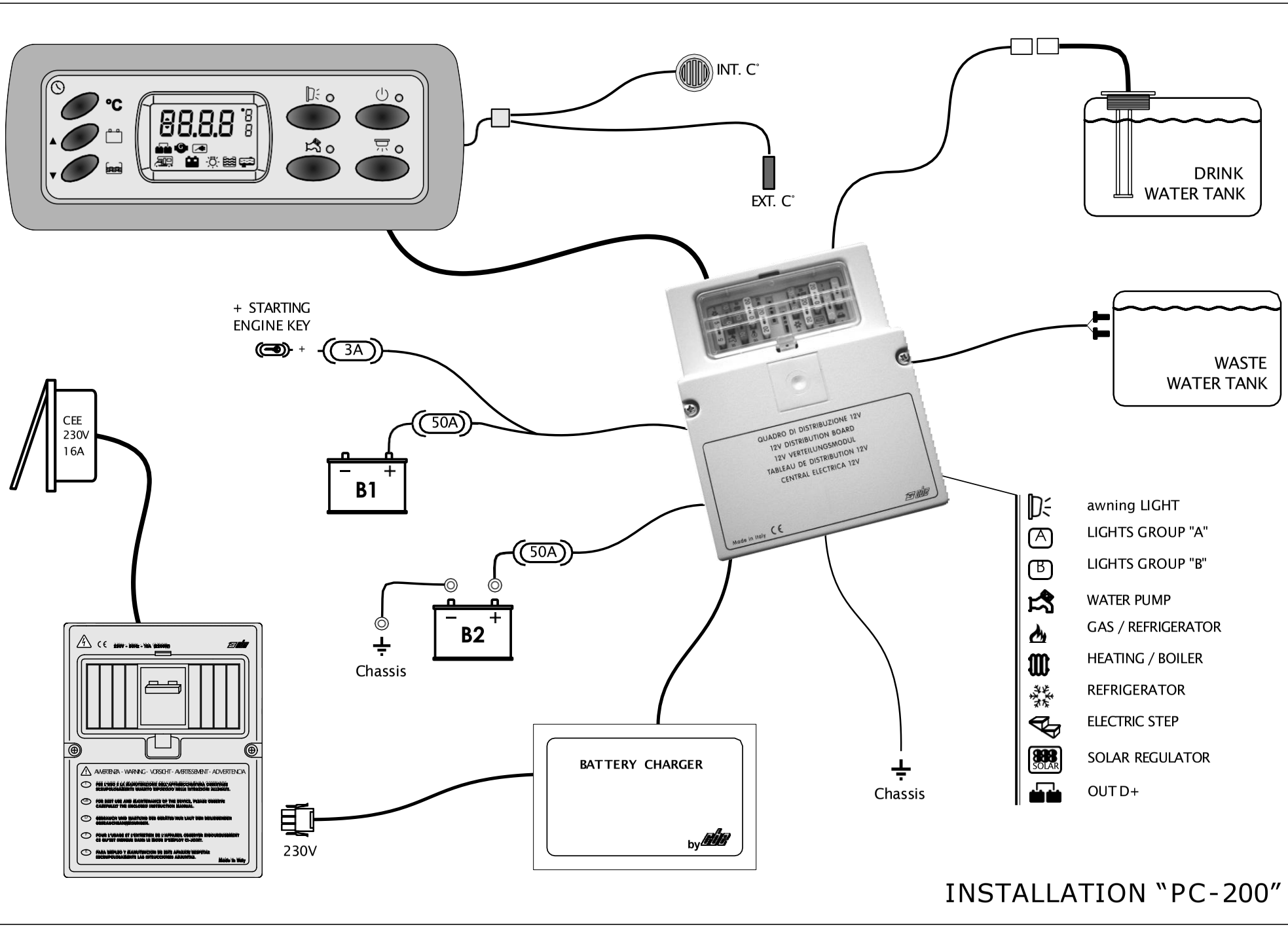
An electronic device, which is controlled by the + Key engine starting, switches on the battery parallel when the alternator voltage is under 13,3V and switches it off when the engine starting key is off or the voltage is under 12V.

This device controls also the awning light's relais, which works only when the engine is off.

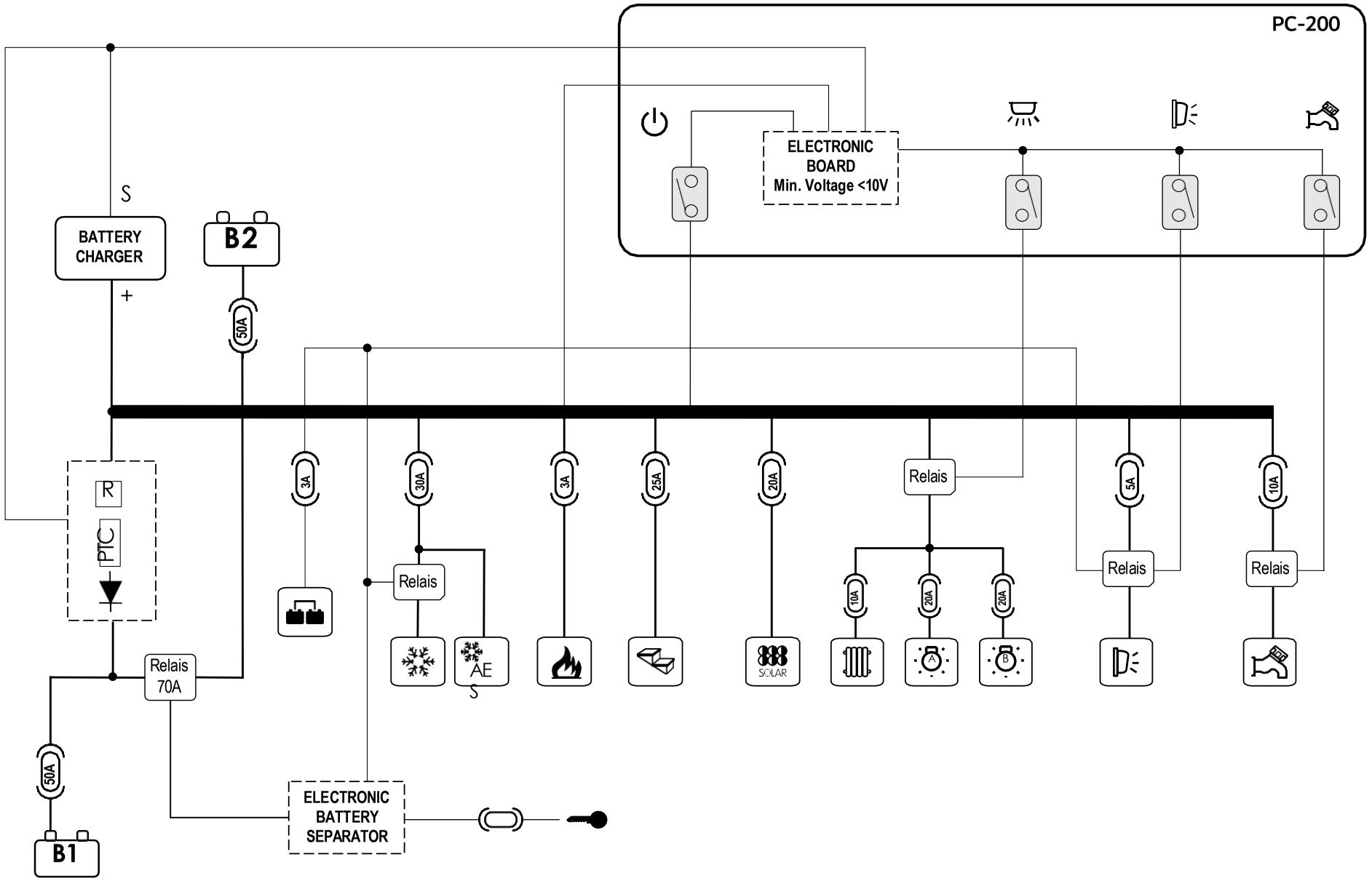


INSTALLATION "PC-100"


WIRING DIAGRAM "PC-100"
PC-100
ELECTRONIC BOARD
Min. Voltage <10V
Relais
10A
5A
20A
10A
20A
25A
3A
30A
3A
50A
50A
B2
B1
BATTERY CHARGER
S
+
PTC
R
Relais 70A
ELECTRONIC BATTERY SEPARATOR
SOLAR



INSTALLATION "PC-200"



WIRING DIAGRAM "PC-200"