

G 350

POWER SUPPLY BACKUPS FOR GAS SAFETY SYSTEMS

ALI-ALP-ACC Eng.



- 1 stabilised backup for powering the system & for charging the accumulator.,
- 1 rechargeable backup accumulator.









1. APPLICATION

These power supply backups are used for powering at low voltage (12 V DC) gas safety systems and so ensuring their operation even in the event of mains power failure. The device comprises:

- 1 stabilised power supply to provide power to all the components of the gas safety system and also to keep the backup accumulator charged.
- 1 backup accumulator which, under normal operating conditions, must be kept constantly charged by the backup. In the event of mains failure the backup ensures that the system continues to function. An accumulator must be chosen with sufficient capacity to provide power during the whole period when there is no mains power supply is lacking.

2. MODELS: STABLISED POWER BACKUPS

Models		ALI 310	ALP 114	ALP 120
Power supply Nominal output voltage Total output current Output current to load Output current to accumulator Accumulator current applicable Accumulator power applicable Operating temperature Storage temperature Dimensions L x P x H Weight	(Pt *) (Pe max.*)	230 V ~ ± 10% 13.8 V - 3 A 2.25 A (30 VA) 0.75 A 15 A/h max. 180 VA max. 540 °C -1060 °C 130 x 100 x 38 mm 0.460 Kg	230 V~ ± 10% 13.5 V – 9 A 6.75 A (90 VA) 2.25 A 40 A/h max. 480 VA max. 040 °C -2080 °C 200 x 260 x 110 mm 6.7 Kg	230 V~ ± 10% 13.5 V – 12 A 9 A (120 VA) 3 A 120 A/h max. 1400 VA max. 040 °C -2080 °C 185 x 290 x 130 mm 8 Kg

^{*} Important datum for selecting components (see section 4).

3. MODELS: ACCUMULATORS (RE-CHARGEABLE BATTERIES)

Code	Voltage V -	Power VA (Pe *)	Capacity ampere per hour Ah	Dimensions L x P x H mm	Peso Kg
ACC 019	12	25	2.3	178 X 34 X 65	0.9
ACC 060	12	77	7.0	151 X 64.5 X 97.5	2.5
ACC 150	12	180	17	181 X 76 X 167	6
ACC 240	12	260	24	175 X 166 X 125	8.1
ACC 400	12	480	40	197 X 165 X 170	14

^{*} Important datum for selecting components (see section 4).





4. CHOICE OF COMPONENTS

4.1 Choice of the backup power supply

Calculate the total power consumption (**Pt**) in VA by the system to be powered, by adding up all the consumptions of the single components of this system: detectors (**Pr**), sensors (**Ps**) (only for SRS sensors: the SGC, SGR and SGS sensors are already taken into account in the consumption of the detectors which power them), valves (Pv), external alarms (**Pa**):

Pt = Pr + Ps + Pv + Pa

The power supplied by the backup must be greater than or equal to Pt.

4.2 Choice of the accumulator

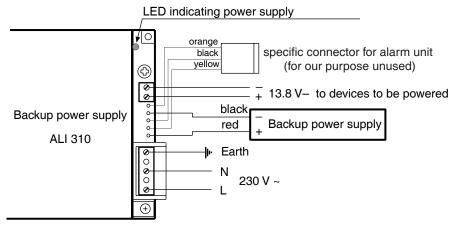
Decide for how many hours (h) the system has to operate without mains power supply. The accumulator must have a load capacity **(Pe)** equal to the power absorbed by the system **(Pt)** multiplied by the number of hours **(h)** established.:

Pe = Pt x h

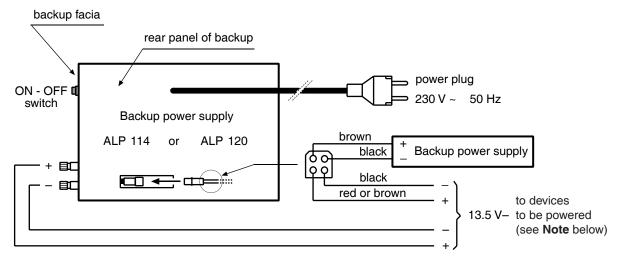
The load capacity of the accumulator must not be less than **Pe**. If a single accumulator is not sufficient, use several accumulators in parallel.

5. ELECTRICAL CONNECTIONS

5.1 Connections backup ALI 310



5.2 Connections backups ALP 114 & ALP 120



NB: the 13.5 V- power supply for the devices can be taken, depending on which is most convenient, either from the two bushes on the facia or from the connecting cable of the backup battery.

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