

DC Power Supply – ALM - ALT Range

The ALM-ALT DC power supply range is used in different types of applications to supply a stabilised and filtered DC current.

It can be used to generate a 28Vdc on-board network for aerospace applications, for engine start up requirements, to carry out maintenance or to power test benches.

In marine applications, this power supply range is used to create on-board emergency networks to power automats and communication equipment.

This type of power supply is often used for rail applications in the maintenance work shop to supply the locomotives and carriages.

Used to create stable low voltage local networks the ALM-ALT power supply range is widely used in the industrial sector.



The power supply, based on thyristor technology, ensures the highest level of reliability and robustness.

The cabinets and the electronic boards can be adapted to the environmental constraints of our customers.



Technical specifications:

Input:

- **ALM Range:**
 - 400Vac, 230Vac or 115Vac \pm 10% single phase
 - Frequency: 50-60Hz +/- 5%
- **ALT Range:**
 - 400Vca \pm 10% three phase
 - Frequency: 50-60Hz +/- 5%
- Optional: other voltages, frequencies...

Output:

- 24, 28, 48, 72, 110, 220 or 349Vdc nominal
- Regulation: +/- 2%
- Ripple voltage: <5%
- Input / Output galvanic insulation:
- Power range for
- ALM Range: up to 15 kW
- ALT Range: up to 50 kW
- Optional:
 - Max overload current up to 3In on ALT-28V
 - other output voltages

Technology:

- Rectified, controlled and filtered technology
- DC current filtered and regulated
- Output current limitation

Display and control panel:

- ON/OFF light indicator
- Voltmeter & ammeter.
- ON/OFF Switch
- Emergency switch

Protection:

- Input: Fuses & thermal relays or circuit breakers
- Output: Fuse or circuit breakers
- Thermal protection
- Robust design

Presentation :

- Metal cabinet.- IP21
- Input & output cables with connectors adapted to application
- Colour: RAL7035

Environmental specifications :

- Operating temperature: -10° to 45°C
- Storage temperature: -20 to 70°C.
- Humidity: from 0 to 95 % without condensation.
- Optional: outside usage compliant

Options:

- Specific connectors
- Voltage & current adjustment potentiometers
- Transient overload current
- Status indicators
- Different IP level
- Communication board: RS485, IP
- Colour

Standard:

- CE certified
- Compliant with NFC15100 / EN2282 / GAM EG13 /MIL STD 1275 depending on the model

Mechanical characteristics:

Dimensions :

- Model ALM 3KW :
 - Height : 600 mm / Width : 600 mm / Depth : 300 mm
- Model ALT 40 KW
 - Height : 2000 mm / Width : 800 mm / Depth : 800 mm

FC-ALM-ALT-EN-C