

MEDIUM POWER SUPPLY 500Watts max
24Vdc / 48Vdc / 60Vdc / 110Vdc / 127Vdc

• DIN rail or surface mounting

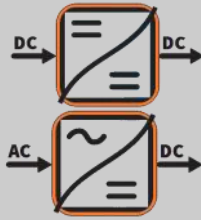
500 Watts total , up to 4 isolated outputs or with common 0V
 Single voltage output : 3.3Vdc....400Vdc
 Symmetrical voltage output: +/-3.3Vdc...+/-110Vdc

• Universal input : Ac-Dc

85....265Vac (50Hz , 60Hz , 400Hz)
 100.....370Vdc

• Fully protected

Short circuit,
 overload and thermal



• AL125-WD

Watchdog relay output, changeover contact

• Special manufacturing on demand

Switchable outputs



Rugged mid power industrial supply, configurable on request, fully protected and available with 1 to 4 isolated or with common 0V outputs.

Description :

- Switching power supply allowing high power density without heating due to its high efficiency.
- With 1 to 4 isolated outputs allowing serial or parallel coupling, in order to have exotic or symmetrical output voltage, or to increase the available output current.

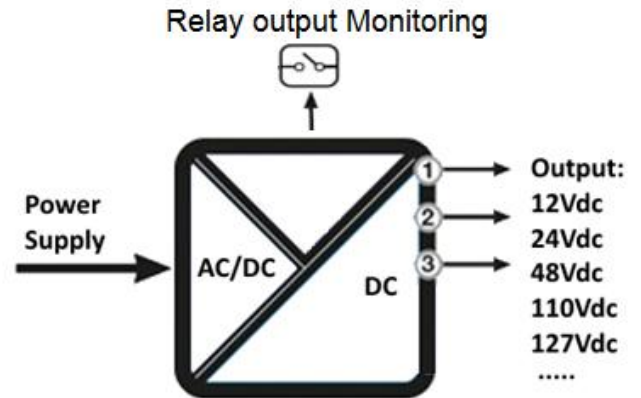
Features :

- DIN rail or surface mounting
- Protection rating IP20
- Conformal coating
- High resistance to vibration and shock
- Low sensitivity to moisture and dust
- Overload protected
- Protection against continuous short circuit
- Thermal protection (output power limitation)
- Natural convection cooling
- Embedded EMC filter in accordance with EN55022 class A,
- Single output voltage: 12, 15, 24, 30, 48,60,72, 110, 127 Vdc,.... or symmetric: +/-12 , +/-15, +/-24 , +/-48 V,..... (Specific outputs values on request).

Implementation and installation recommendations

- Primary protection with fuse recommended (delayed 15A).
- Be careful with positioning, to ensure proper ventilation.

Synoptic for version with 1, 2, 3 outputs



Version and order code:

[Request a quote](#)

AL125 : 1 to 4 outputs. Output voltage / current to define at order.

- Option : - **D** Internal ORing diode for parallel connection
- **Wd** Watchdog relay monitoring the output voltage
- **2Wd** 2 Watchdog relay monitoring the output voltage
- **S2,S3, S4** Up to 4 isolated outputs or with common 0V
- **Mov** with protection for inductive load
- **HT** High temperature version

AL125L : "Low power" version. Single output.

AL125H : High density model with forced convection.

AL125R-WD : 2 internal redundant power supplies (parallel wiring) + 2 relays. Monitoring of each supply

Power supply (standard version)

Input voltage 85....265 VAC / 100...370 VDC
 Input frequency 47....440 Hz
 Typical efficiency >90 %
 Power factor >0.94 @230Vac full loaded
 Inrush current 15A typical

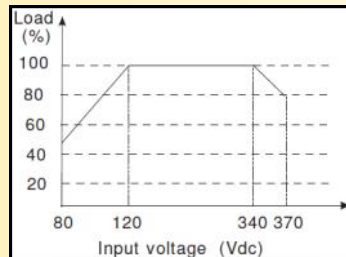
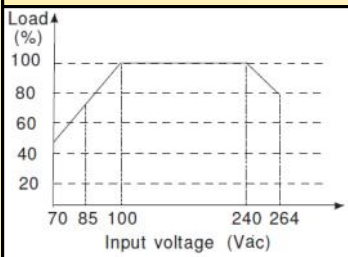
Output

Output accuracy +/-2 % max
 Output regulation +/-1 % max. (full load)
 Line regulation (input variation) : +/-0.5%
 Output ripple < 1 % Vout max (limited to 20MHz)
 Continuous short circuit protected, automatic restart.
 Overload protection 110 % typ.
 Switching frequency 60 kHz to 200khz (depend of model).
 Output hold time 50 ms typical.

Watchdog relay

Free potential changeover contact
 Dielectric strength (isolation) > 2500Vac
 Impulse withstand voltage (1.2 / 50µ) 6000V
 AC switching capacity: 250Vac (400Vac) 6Aac 2000VA
 DC switching capacity: 300Vdc 0.3Adc 90W
 DC switching capacity: 30Vdc 5Adc 150W

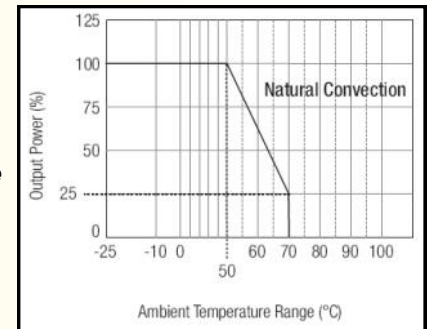
Output power function of input voltage (standard version)



ENVIRONMENT

Operating temperature -20 °C to 50 °C
 Derating 2.5% / °C (above 55°C)
 Thermal protection 100 °C internal
 Storage temperature -40 °C to 105 °C
 Humidity 85 % (not condensed)
 Thermal drift ±0.02 %/°C typical
 Insulation resistance 100 MΩ min.
 Dielectric strength 4000 VAC (input / output)
 Weight 800 g
 MTBF (+25 °C) 300 000 hours

Output power function of ambient temperature

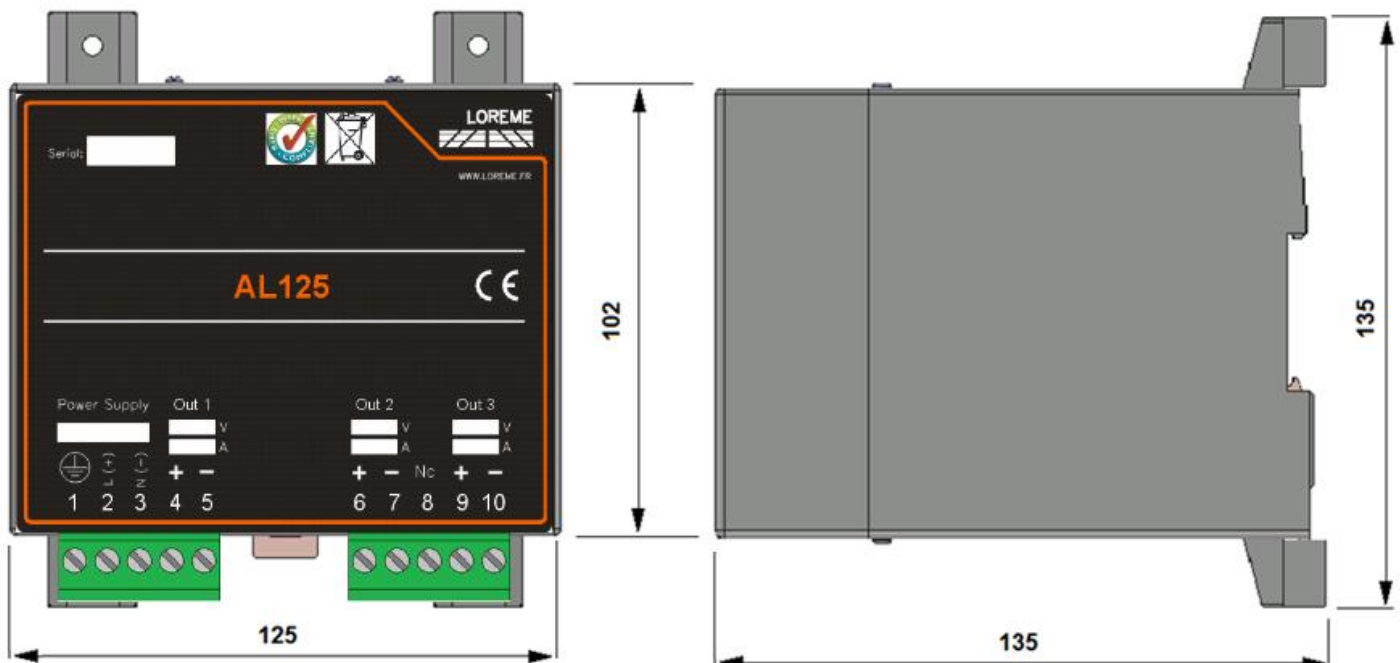


Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

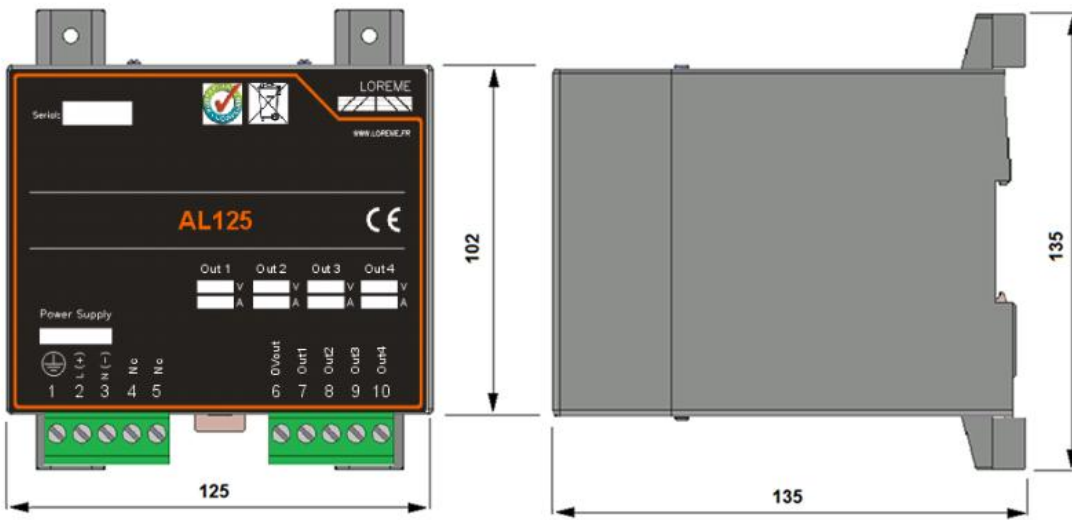
Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4	
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011 group 1 class A	
EN 61000-4-3 RF	EN 61000-4-9 pulse MF		
EN 61000-4-4 EFT	EN 61000-4-11 AC dips		
EN 61000-4-5 CWG	EN 61000-4-12 ring wave		
EN 61000-4-6 RF	EN 61000-4-29 DC dips		

WIRING AND OUTLINE DIMENSIONS:

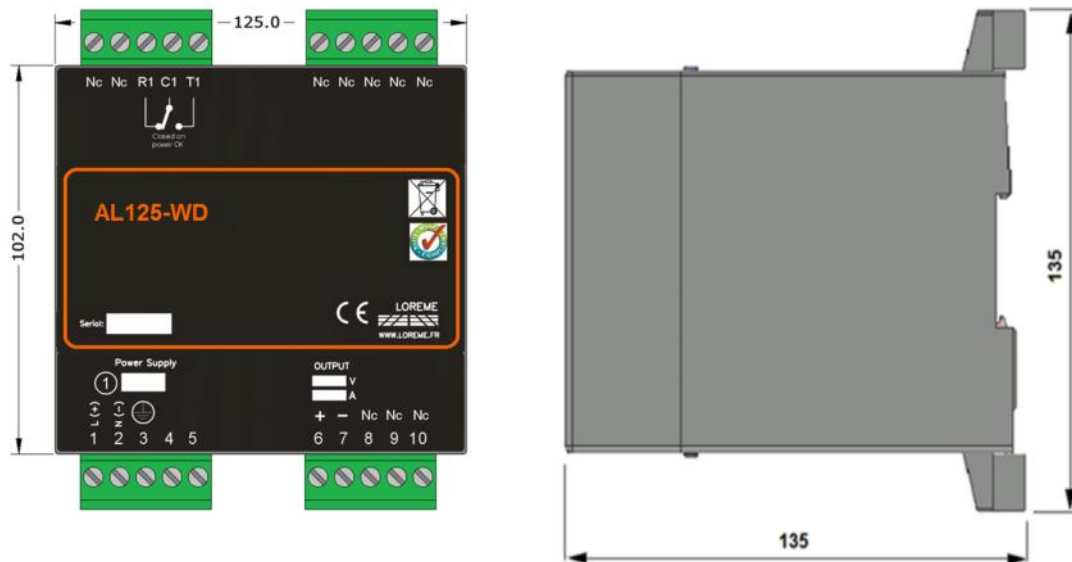
AL125 Version with 1 to 3 isolated outputs



AL125-S4 4 not isolated outputs (common 0V) or symmetrical output



AL125-WD 1 input, 1 output and 1 watchdog relays



AL125R-WD 2 inputs, 1 redundant output and 2 watchdog relays

