

DIN RAIL MEDIUM POWER SUPPLIES 24V / 48V

Single phase or three phases input

ALDR **LOREME**

• Universal Ac and Dc inputs

Single phase version: 85...265 Vac / 120...370 Vdc

Three phases version: 340...550 Vac / 480...780 Vdc (HV)

Switching mode power supply

• DIN rail mounting

Available power:

75Watts, 120Watts; 240Watts; 480Watts; 960Watts

Output voltage : 24 Vdc / 28Vdc / 48 Vdc

• Fully protected

Short circuits,
overload,
over temperature



• Built in power factor correction

• Natural air cooling



Industrial medium power supplies. Robust design, fully protected, single output, DIN rail mounting.

Description:

Switching power supply allowing to have a high power in a small volume. The high efficiency of electronics limits the overheating.

Feature:

- DIN rail mounting,
- IP20 protection class,
- high resistance to vibration and shock, (10 ~ 500Hz, 2G 10min./1cycle, 60min. X, Y, Z axes)
- low sensitivity to humidity and dust,
- protected against overload,
- protected against continuous short circuits,
- thermal protection (output power limitation),
- cooling by natural air convection,
- built-in EMC filter compliant to EN55022 class A.

Technical specifications:

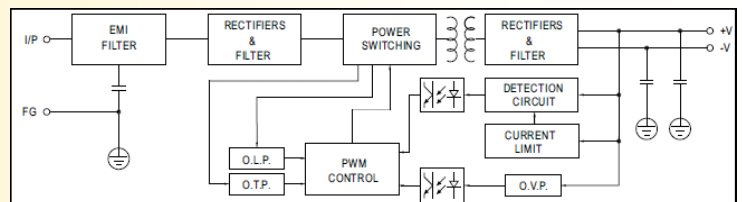
Output voltage accuracy: +/- 1% typical
Line regulation (input variations): +/- 0.5%
Load regulation (output current variations): +/- 1%
Ripple and noise : < 100mVp-p (20Mhz bandwidth)
Temperature coefficient : +/- 0.03% / °C (0°C to 50°C)
Hold time of output : 25ms typical (230Vac)
Frequency input range: dc or 47...63Hz
Maximum temperature range: -20°C to +60°C (standard)
(temperature derating of 2.5% / °C above 55°C)
Output current limitation: 110%
MTBF: 300 000 hours @ 25°C

Recommendation for implantation and installation:

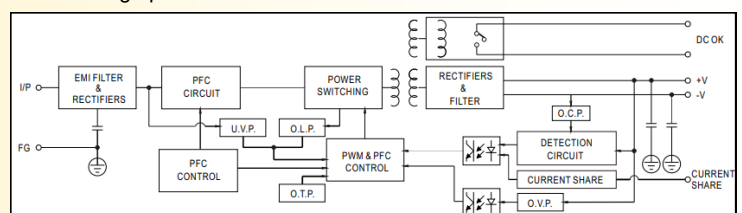
- primary protection by fuse recommended (5A slow blow fuse)
- respect a position allowing a good dissipation.

Synoptic :

ALDRL Low cost version



ALDR High performance version



Version and order code:

[Request a quote](#)

ALDR ppp-uu : Rated 230Vac input
(high performance version with watchdog relay: 120W, 240W and 480W)

ALDRL ppp-uu : Rated 230Vac input
(low cost version without watchdog relay)

ALDR-HV ppp-uu : 400Vac input

ppp = 75 Watts, 120 Watts, 240 Watts, 480 Watts, 960 Watts

uu = 24Vdc, 28Vdc, 48Vdc

Power supply

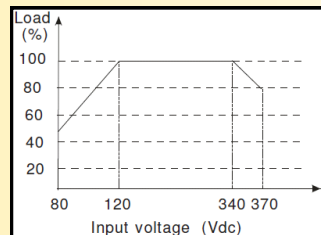
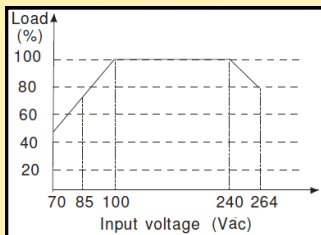
Input voltage 85...265Vac / 120...370Vdc
340...550Vac / 480...780Vdc (HV version)
(except ALDR120: 88...132Vac / 176...264Vac or 248...370Vdc)

Input frequency 47...440Hz on request
Typical efficiency > 84%
Inrush current 25A typical

Output

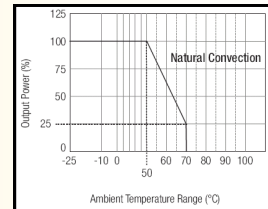
Output accuracy +/- 1% max.
Output regulation +/- 2% max. (full load)
Output ripple < 1% Vout max (20MHz limited)
Continuous short circuit protected, automatic restart
Overload protection 110% typ.
Switching frequency 60kHz typ.
Output hold time 25ms typ.

Characteristic of output power versus input voltage

**Environment**

Operating temperature -10 °C to 55 °C (without derating)
Thermal protection 100°C internal
Storage -20 °C to 105 °C
Humidity 85 % (not condensed)
Temperature regulation +/- 0.02%/°C typical
Isolation resistance 100 MΩ min.
Dielectric strength 3000VAC (input / output)
Weight ALDR120 : 0.8Kg ALDR240 : 1.5Kg
MTBF (+25°C) 300 000 hours (MIL-HDBK-217F)

Characteristic of output power versus ambient temperature

**Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE**
Immunity standard for industrial environments
EN 61000-6-2

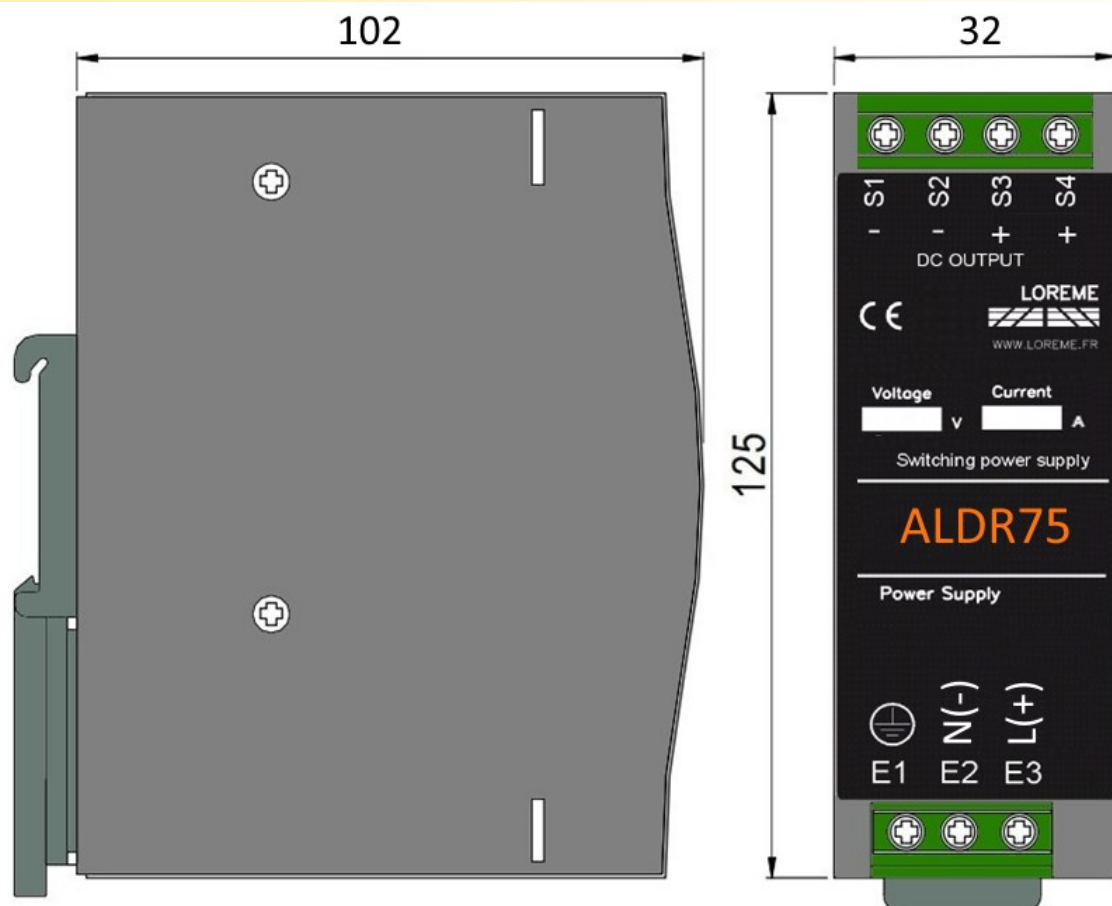
EN 61000-4-2 ESD	EN 61000-4-8 AC MF
EN 61000-4-3 RF	EN 61000-4-9 pulse MF
EN 61000-4-4 EFT	EN 61000-4-11 AC dips
EN 61000-4-5 CWG	EN 61000-4-12 ring wave
EN 61000-4-6 RF	EN 61000-4-29 DC dips

Emission standard for industrial environments
EN 61000-6-4

EN 55011

group 1

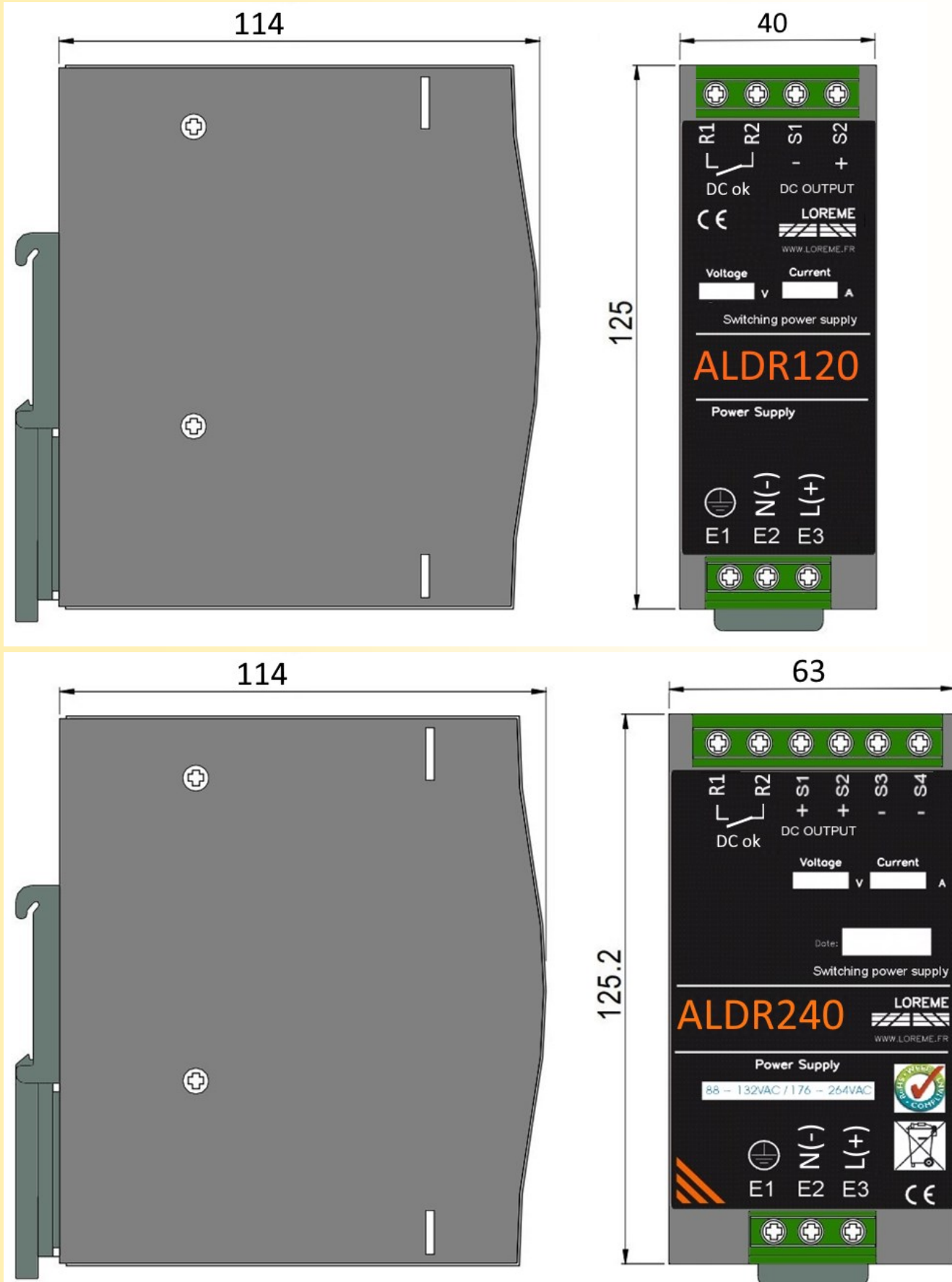
class A

**WIRING AND OUTLINE DIMENSIONS:**

DIN RAIL MEDIUM POWER SUPPLIES 24V / 48V
Single phase or three phases input

ALDR LOREME

WIRING AND OUTLINE DIMENSIONS: 120W and 240W version



WIRING AND OUTLINE DIMENSIONS: 480W and 960W version

