

DIN RAIL MEDIUM POWER SUPPLIES

Single phase or three phases input

• 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:

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.

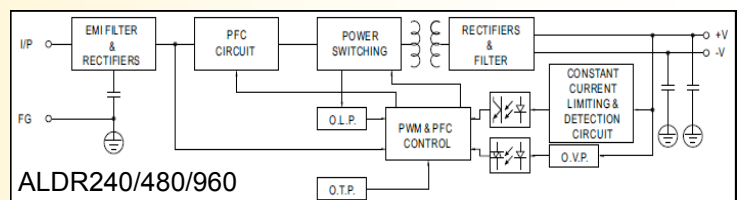
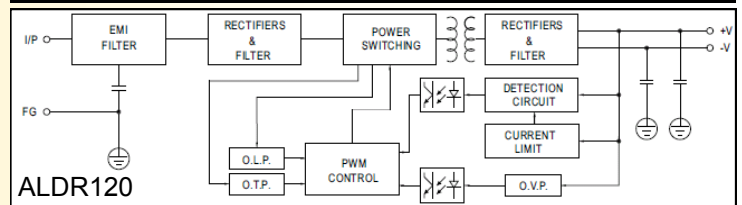
Technical specifications:

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
 (temperature derating of 2.5% / °C above 55°C)
 Output current limitation: 110%
 MTBF: 300 000 hours at 25°C

Recommendation for implantation and installation:

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

Synoptic :



Version and order code:

[Request a quote](#)

ALDR ppp-uu : 230Vac input

ALDR-HV ppp-uu : 400Vac input

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

uu = 24Vdc, 28Vdc, 48Vdc

Power supply

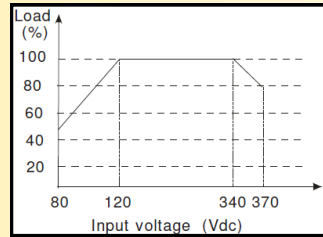
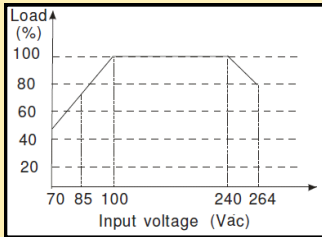
Input voltage 85...265Vac / 120...370Vdc
 340...550Vac / 480...780Vdc (HV version)
 (except ALDR120: 88...132Vac / 176...264Vac or 248...370Vdc)

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.

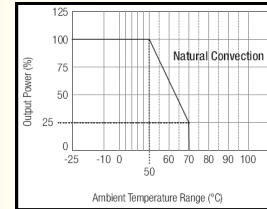
Characteristic of output power versus input voltage



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		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:

