

MEDIUM POWER SUPPLY 500Watts max type:AL125

LOREME

• DIN rail or surface mounting

500 Watts total , up to 4 isolated outputs or with common 0V

Single voltage output : 3.3Vdc....400Vdc

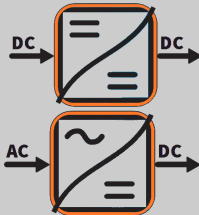
Symmetrical voltage output: +/-3.3Vdc...+/-150Vdc

• Universal input :

85....265Vac (50Hz , 60Hz , 400Hz)

• 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 the high efficiency of electronics.
- 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.

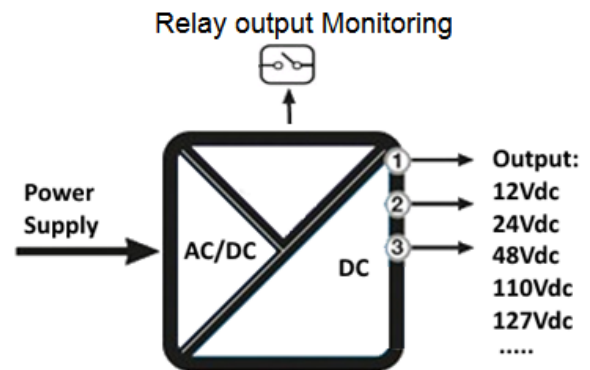
Features :

- 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,...250 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 or symmetrical output.

- 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 up to 70°C without derating

AL125L : "Low power" version. Single output.

AL125H : High density model with forced air convection.

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

AL125Lin : Linear version (low leakage current, low noise).

Power supply (standard version)

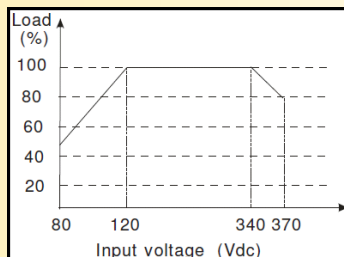
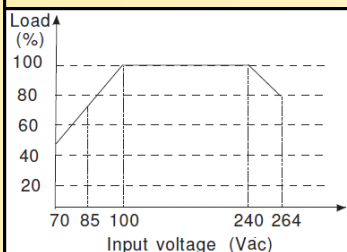
Input voltage	85....265 VAC
Input frequency	47....440 Hz
Typical efficiency	>90 %
Power factor	>0.94 @230Vac full loaded
Inrush current	15A typical

Output

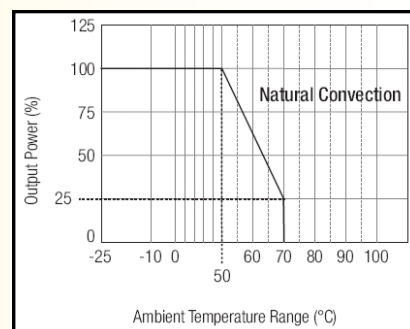
Output accuracy	+/-2 % max
Output regulation	+/-1 % max. (full load)
Line regulation (input variation) :	+/-0.5%
Output ripple	< 1 % Vout max (limited to 20MHz)
Continuous short circuit protected, automatic restart.	
Overload protection	110 % typ.
Switching frequency	60 kHz to 200kHz (depend of model).
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 0.3Aac	90W
DC switching capacity: 30Vdc 5Aac	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
Atmospheric pressure	700mBars to 1300mBars 200mBar/minute variation

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 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

EN 55011
group 1
class A

**WIRING AND OUTLINE DIMENSIONS:****AL125 Version with 1 to 3 isolated outputs**