

AC-DC or DC-DC POWER SUPPLY up to 3000 Watts AL200

LOREME

DIN RAIL or surface mounting

AL200HD 3000 Watts or up to 6 x 500 W outputs
AL200 2500 Watts or up to 5 x 500 W outputs
AL200L 2000 Watts or up to 4 x 500 W outputs
 Output voltage: 12Vdc....240Vdc
AL200V: adjustable with potentiometer or by analogue input
AL200HV: High voltage input

• **Input voltage:** DC, 50Hz, 60Hz and 400Hz
 85 265Vac single-phase
 180550Vac Two-phase / Three-phase

• **Fully protected:** Short circuit, overload, thermal

Options :

Ethernet link for remote monitoring
 Internal diode for parallel coupling,
 Watchdog relay monitoring the output voltage,
 Analogue output 0...10V, 4-20mA copy of output current



Strong industrial power supply, configurable on request, fully protected and available from 1 to 6 isolated outputs or with common ground. Application : Industrial, energy, photovoltaic, wind power, ...

Description :

- Switching power supply allowing high power density without heating due to the high efficiency of electronic.
 - 1 to 6 isolated outputs allowing coupling the outputs in series or parallel, in order to have exotic or symmetrical output voltage, or to increase the output current.

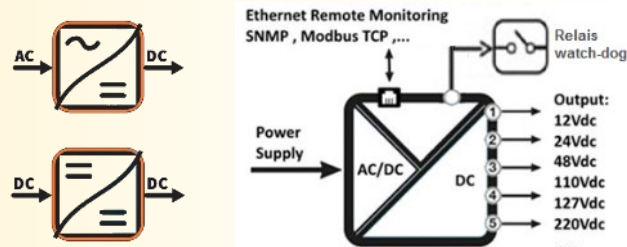
Features :

- DIN rail or wall mounting.
 - Pluggable screw terminal blocks, connection up to 6mm² or fixed connectors up to 16mm² according to output current.
 - Housing material: Polycarbonate fiber reinforced
 - Flammability rating according to UL-94-V0
 - Protection rating IP20.
 - High resistance to vibration and shock.
 - Low sensitivity to moisture and dust.
 - Overload protection
 - Continuous short circuit protected.
 - Thermal protection (output power limitation).
 - Forced ventilation cooling
 (AL200: dual fan, AL200L single fan)
 - Embedded EMC filter in accordance with EN55022 class A,
 Specific module on request:
 Single output : 24, 30, 48, 72, 110, 125V,...150V
 or symmetrical: +/-12 , +/-15, +/-24 , +/-48V,... +/- 15V

Implementation recommendations:

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

Synoptic



Version and order code:

AL200 -U-i : (redundant, dual ventilation cooling) 2500Watts max.
AL200HD -U-i : (high density, redundant ventilation) 3000 Watts max.
AL200HT -U-i : (High temperature version)
AL200HV -U-i : (High voltage input version) 300 Watts max.
AL200L -U-i : (single ventilation) 2000 Watts max.
 - U : output voltage
 - i : output current

Option: - **D** Internal diode for parallel coupling.
 - **Wd** Watchdog relay monitoring the voltage output
 - **S2,S3,S4,S5,S6** 2 to 6 isolated outputs (4 outputs for AL200L)
 - **/S** Analog output 4...20mA, 0...10V. Image of output current.
 - **/HT** High temperature version (75°C)
 - **/NV** Natural convection cooling version

Communication: (monitoring of output voltage and current)

- **SNMP** (Ethernet link, SNMP protocol)
 - **CMTCP** (Ethernet link, Modbus-TCP protocol)

AL200R-WD : 2 internal power supplies (in parallel) with 2 relays indicating proper operation of each power supply.

AL200V : Version with adjustable output

AL200FIL : filtered / rectified version (application : motor / contactor)

[Request a quote](#)

Power supply

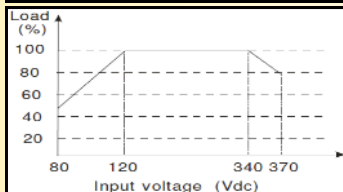
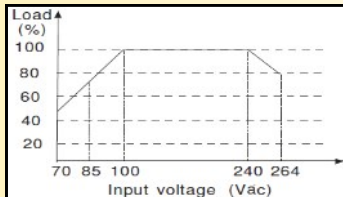
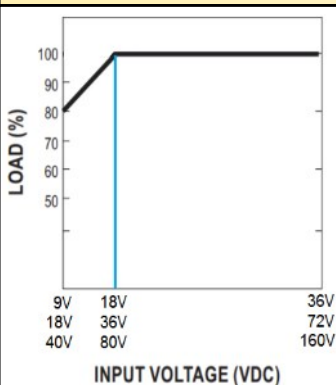
Standard input voltage 85....265 Vac
 High input voltage 180....550 Vac
 Input frequency DC or 47....440 Hz
 Typical efficiency > 90 %
 Power factor > 0.94 @230Vac full load
 Inrush current 60A typical

Output

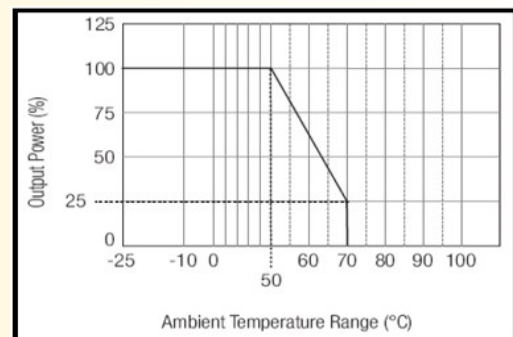
Accuracy of output setting +/- 2 % max (+/- 1% on request)
 Output regulation +/- 2 % max. (full load)
 Line regulation (input variation): +/- 0.5%.
 Output ripple < 1 % max (limited to 20MHz)
 Thermal stability +/- 0.02% / °C typical
 Output regulation (output current change) : +/-1%.
 noise and ripple: <100mVpp (20MHz bandwidth)
 Continuous short circuit protected, automatic restart.
 Overload protection 110 % to 140% of rating current
 Switching frequency 60 kHz typ.
 Output hold time 50 ms typical.

Watchdog relay (characteristics according to model)

Free potential changeover contact
 Dielectric strength (isolation) 3000Vac or 500Vac
 impulse withstand voltage (1.2 / 50µ) 2000V or 6000V
 AC switching capacity: 250Vac (400Vac) 6Aac 2000VA
 DC switching capacity: 300Vdc 0.3Adc 90W
 DC switching capacity: 30Vdc 1Adc 30W

Output power function of input voltage**ENVIRONMENT**

Operating temperature for AL200 -25°C to 60 °C
 Operating temperature for AL200-HT -25°C to 75 °C
 Operating temperature for AL200L -25°C to 55 °C
 Temperature derating : 2.5%/°C above 50°C
 Storage temperature -40 °C to 85 °C
 Thermal protection 100 °C internal
 Humidity 85 % (not condensed)
 Insulation resistance > 100 MOhms
 Dielectric strength 2500 Vac (input / output)
 1500Vac (input / ground)
 500Vac (output/ watchdog relay)
 500Vac (output / ground)
 Weight 3500 g
 MTBF (+25 °C) 350 000 hours (off fan)
 Lifetime 100 000 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	

**Center distance for surface mounting:**