

**Adjustable Power supply, DIN rail, up to 127Vdc
adjust with external or internal setpoint**

• **Adjustable output with external setpoint** 200 Watts maxi

0...30Vdc / 5A; 0...48Vdc / 2A; 0...60Vdc / 1.8A
0...115Vdc / 1A; 0...127Vdc / 1A;
+/- 48Vdc 3A
other on request

• **Setpoint input**

0...10V, 4...20mA or potentiometer

• **AC or DC Power supply**

48Vac; 85 265Vac (50Hz, 60Hz, 400Hz)
100 ... 370Vdc; 200 ... 1200Vdc

• **Analog output. Image of output current**

4-20mA or 0-10V

• **Fully protected**

Short circuit, overload, thermal

• **DIN RAIL or surface mounting**

fan air cooling



Strong mid range industrial power supply with variable output. Adjustable with analog input, can be used as high output power amplifier.

Description:

- Hybrid power supply integrate a switching post-regulation and linear regulation to combine efficiency and low noise.

Features:

- DIN rail or surface mounting,
- IP20 Protection,
- Pluggable screw terminal blocks (6 mm² max),
- Conformal coating,
- High resistance to vibration and shock,
- Low sensitivity to humidity and dust,
- Overload protected
- Continuous short circuit protected
- Thermal protection (output power limitation),
- Forced fan cooling for AL175
- Embedded EMC filter in accordance with EN55022 class A,
- Output voltage adjustable on several range.

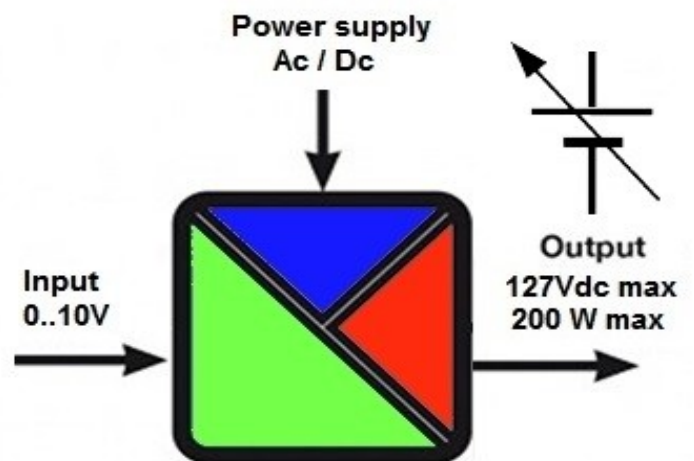
Technical specifications:

Output voltage linearity (typical): +/-2% / setpoint.
Line Regulation (input variation): +/-0.5%.
Load regulation (output current variation) : +/-1%.
Noise and ripple : < 100 mVpp (20 MHz bandwidth).
Thermal stability: +/-0.02% / °C.
Holding time of the output: 50 ms typical (230Vac).
Temperature from -20 °C to +60 °C (standard version).
Temperature derating: 2.5% / °C above 55 °C.
Output current limitation: 110%.
Reliability : MTBF of 300 000 hours at 25 °C.

Implementation and installation recommendations

- Primary protection with fuse recommended (delayed 5A).
- Be careful with positioning to ensure proper ventilation.

Synoptic



Version and order code:

[Request a quote](#)

AL175V : 1 variable output / 0...10V or 4-20mA setpoint to define

Output range to define :
0...30Vdc / 5A
0...48Vdc / 2A
0...60Vdc / 1.8A
0...115Vdc / 1A
0...127Vdc / 1A
other on request

auxiliary power supply must be defined

AL175V-S: Analog output (4-20mA or 0-10V)
as an image of output current

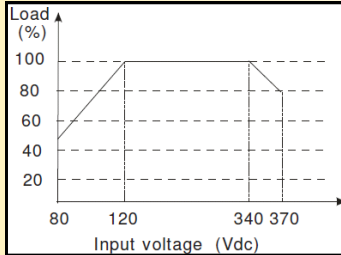
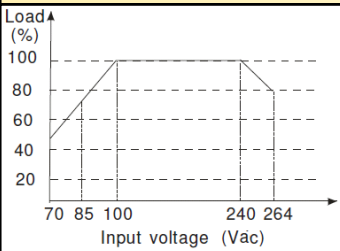
Power supply

Input voltage 85...265 VAC / 120...370 VDC
 Input frequency 47...440 Hz
 Typical efficiency >85 %
 Inrush current 15A typical

Output

Accuracy +/- 2 % max (+/- 1% on request)
 Regulation +/- 2 % max. (full load)
 Ripple < 1 % Vout max (limited to 20MHz)
 Continuous short circuit protection.
 Overload protection 110 % typ.
 Switching frequency 60 kHz typ.
 Output hold time 50 ms typical.

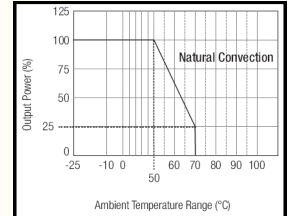
Output power characteristics function of input voltage (version 85...265Vac)



ENVIRONMENT

Operating temperature -10 °C to 50 °C
 Thermal protection 100 °C internal
 Storage -20 °C to 95 °C
 Humidity 85 % (not condensed)
 Temperature coefficient +/- 0.02 %/°C typical
 Insulation resistance 100 MΩ min.
 Dielectric strength 2500 VAC
 Weight 800 g
 MTBF (+25 °C) 300 000 hours

Output power characteristics 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:

