

**PRATICAL** : ON/OFF switch.

- Power-on indicator.

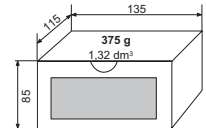
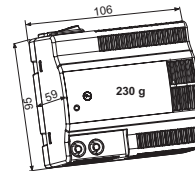
PRECISE : Output ripple < 3 mV rms.

- Output voltage adjustable from 10 to 15 V.

PROTECTED : against Short circuit.**RESISTANT TO SHOCK****30 WATTS**

12 V (Adj. 10 to 15 V)

2,5 A



Specifications

Voltage

- Floating outputs on 4 mm safety sockets.
- Output voltage : adjustable from 10 to 15 V. Delivered to 12 V $\pm 1\%$
- Regulation : < 25 mV for a load variation from 0 to 100%
< 5 mV for a line variation from -10 to +10%.
- Ripple : < 3 mV rms including:
< 3 mV peak to peak of the switching signal
< 8 mV peak to peak of the signal at 100 Hz
< 10 mV peak to peak of switching spikes
- Dynamic regulation : < 1% for a load variation from 10 to 90%
- Indicator : green power-on LED indicator.

Current

- Max I : 3 A to 10 V
2,5 A to 12 V
2 A to 15 V

Power

- Max output power : 30 W.
- Efficiency : > 80% at the full power (30 W in output)

Protection

- Against short circuit, by current limit.
- Against overcurrent on main input, by fuse.
- Against transient pulse on the primary by varistor.

Other specifications

- Safety : Class II, Safety Extra Low Voltage (SELV) according to EN 61010-1.
- EMC : Complies with EN 61326-1, performance criteria B, and EN 55011, ISM Group I, Class B.
- Protection level : IP 30.
- Input voltage : 190 to 264 Volts, 50/60 Hz.
- Mains input : C8 socket with CEI320 C7 removable cable (2 poles double insulation).
- Power consumption : 37 W max.
- ON/OFF control : toggle switch
- Dielectric strength : 3000 VAC between input and output.
- Presentation : polycarbonate case screenprinted.

EAN CODE : 3760244880154

12 V

ALF1205

**PRATICAL** : ON/OFF switch.

- Power-on indicator.

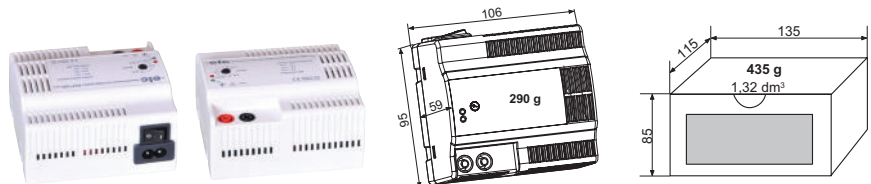
PRECISE : Output ripple < 3 mV rms.

- Output voltage adjustable from 10 to 15 V.

PROTECTED : against Short circuit.**RESISTANT TO SHOCK****60 WATTS**

12 V (Adj. 10 to 15 V)

5 A



Specifications

Voltage

- Floating outputs on 4 mm safety sockets.
- Output voltage : adjustable from 10 to 15 V.
- Regulation : < 15 mV for a load variation from 0 to 100%
< 2 mV for a line variation from -10 to +10%.
- Ripple : < 3 mV rms including:
< 3 mV peak to peak of the signal at 100 KHz
< 5 mV peak to peak of the signal at 100 Hz
< 12 mV peak to peak of switching spikes
- Hold-up time : 25 ms at half load and 12 ms at full load (198 V line input).
- Indicator : green power-on LED indicator.
Overheat or overcurrent red LED "status" indicator.

Current

- Max I : 5,5 A in short circuit condition.
5 A from 10 to 12 V
4 A to 15 V

Power

- Max output power : 60 W.

Protection

- Against short circuit protection, by current limit.
- Against overtemperature by thermal shutdown.
- Against overcurrent on main input, by fuse.

Other specifications

- Safety : Class II, Safety Extra Low Voltage (SELV) according to EN 61010-1.
- EMC : Complies with EN 61326-1, performance criteria B, and EN 55011, ISM Group I, Class B.
- Protection level : IP 30.
- Input voltage : 190 to 264 Volts, 50/60 Hz.
- Mains input : C8 socket with CEI320 C7 removable cable (2 poles double insulation).
- Power consumption : 74 W max.
- ON/OFF control : toggle switch
- Dielectric strength : 3000 VAC between input and output.
- Presentation : polycarbonate case screenprinted.

EAN CODE : 3760244880161

12 V

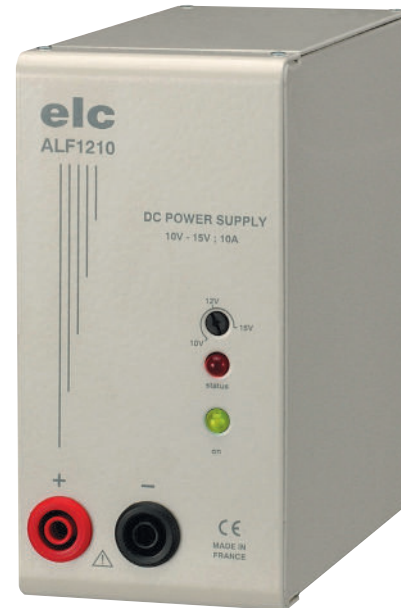
ALF1210

**PRECISE** : Output ripple < 3 mV rms.**COMPLIANT** : EN 61000-3-2 Built in active power corrector (PFC).**PRACTICAL** : Output voltage adjustable from 10 to 15 V.

- ON/OFF switch, power-on and output fault indicators.

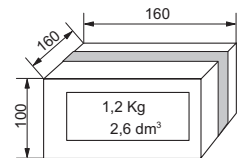
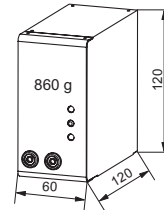
PROTECTED : Short circuit protection.

- Temperature controlled fan cooling.

**120 WATTS**

12 V (Adj. 10 to 15 V)

10 A



Specifications

Voltage

- Floating outputs on 4 mm safety sockets.
- Output voltage : adjustable from 10 to 15 V.
- Regulation : < 25 mV for a load variation from 0 to 100%.
< 1 mV for a line variation from -10 to +10%.
- Ripple : < 3 mV rms including:
< 5 mV peak to peak of the signal at 100 kHz
< 5 mV peak to peak of the signal at 100 Hz
< 40 mV peak to peak of switching spikes
- Hold-up time : 25 ms at half load and 12 ms at full load (190 V line input).
- Indicator : green power-on LED indicator.
"status, output fault" red LED.

Current

- Max I : 10,5 A in short circuit condition.
10 A from 10 to 15 V

Power

- Max output power : 150 W.

Protection

- Against short circuit by current limit.
- Against overcurrent on main input, by fuse.
- Against overload by voltage limit to 17 V.

Other specifications

- Safety : Classe II, double insulation, according to EN 61010-1.
- EMC : Complies with EN 61326-1, performance criteria B, and EN 55011, ISM Group I, Class B.
- Protection level : IP 30.
- Input voltage : 190 to 264 Volts, 50/60 Hz.
- Mains input : C8 socket with CEI320 C7 removable cable (2 poles double insulation).
- Power consumption : 170 W max.
- Power factor : 0.99 (built with PFC).
- ON/OFF control : toggle switch
- Dielectric strength : 3000 VAC between input and output.
- Presentation : metal case with epoxy finish.

EAN CODE : 3760244880178

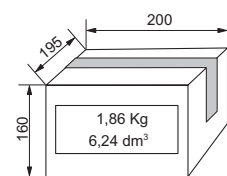
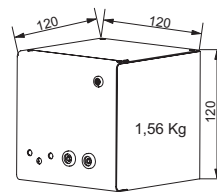
12 V

ALF1225

**PRECISE** : Output ripple < 3 mV rms.**COMPLIANT** : EN 61000-3-2 Built in active power corrector (PFC).**PRACTICAL** : Output voltage adjustable from 10 to 15 V.
25 A from 10 to 12 V and 20 A at 15 V.**POWERFUL** : to cumulate n+1 (Parallel active mode).**PROTECTED** : against short circuit.**QUIET** : Temperature controlled fan cooling.**300 WATTS**

12 V (Adj. 10 to 15 V)

25 A



Specifications

Voltage

- Floating outputs on 4 mm safety sockets.
- Output voltage : adjustable from 10 to 15 V with fine adjustment.
- Regulation : < 70 mV for a load variation from 0 to 100%.
< 1 mV for a line variation from -10 to +10%.
- Ripple : < 3 mV rms including :
< 8 mV peak to peak of the signal at 100 kHz
< 3 mV peak to peak of the signal at 100 Hz
< 50 mV peak to peak of switching spikes
- Internal resistance : < 4 mΩ.
- Hold-up time : 25 ms at half load and 12 ms at full load (190 V line input).
- Indicator : green power-on LED indicator.
overheat or overvoltage red LED indicator.

Current

- Max I : 25,5 A in short circuit condition.
25 A from 10 to 12 V, 20 A at 15 V.

Power

- Output power : 300 W from 12 to 15 V, 250 W to 10 V.

Paralleling mode

- Load share controller (1 wire) on 2 mm safety sockets.

Protections

- Against short circuits by current regulation.
- Against overcurrent on main input, by internal fuse.
- Against output overload by voltage limiting to 17 V.
- Against overheat by controlled fan.

Other specifications

- Safety : Class II, double insulation, complies with EN 61010-1.
- EMC : Complies with EN 61326-1, performance criteria B, and EN 55011, ISM Group I, Class B.
- Protection level : IP 30.
- Input voltage : 190 to 264 Volts, 50/60 Hz.
- Mains input : C8 socket with CEI320 C7 removable cable (2 poles double insulation).
- Power consumption : 360 W max.
- Power factor : 0.99 (built with PFC).
- ON/OFF control : toggle switch
- Dielectric strength : 3000 VAC between input and output.
- Presentation : metal case with epoxy finish.



PRATICAL : ON/OFF switch.

- Power-on indicator.

PRECISE : Output ripple < 3 mV rms.

- Output voltage adjustable from 20 to 30 V.

PROTECTED : against Short circuit.

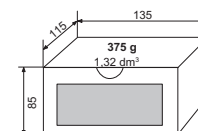
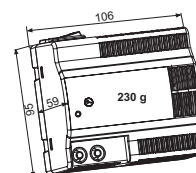
RESISTANT TO SHOCK



30 WATTS

24 V (Adj. 20 to 30 V)

1,25 A



Specifications

Voltage

- Floating outputs on 4 mm safety sockets.
- Output voltage : adjustable from 20 to 30 V. Delivered to 24 V $\pm 1\%$
- Regulation : < 20 mV for a load variation from 0 to 100%
< 5 mV for a line variation from -10 to +10%.
- Ripple : < 3 mV rms including:
< 3 mV peak to peak of the switching signal
< 4 mV peak to peak of the signal at 100 Hz
< 15 mV peak to peak of switching spikes
- Dynamic regulation : < 0,5% for a load variation from 10 to 90%
- Indicator : green power-on LED indicator.

Current

- Max I : 1,5 A to 20 V
1,25 A to 24 V
1 A to 30 V

Power

- Max output power : 30 W.
- Efficiency : >82% at the full power (30 W in output)

Protection

- Against short circuit protection, by current limit.
- Against overcurrent on main input, by fuse.
- Against transient pulse on the primary by varistor.

Other specifications

- Safety : Class II, Safety Extra Low Voltage (SELV) according to EN 61010-1.
- EMC : Complies with EN 61326-1, performance criteria B, and EN 55011, ISM Group I, Class B.
- Protection level : IP 30.
- Input voltage : 190 to 264 Volts, 50/60 Hz.
- Mains input : C8 socket with CEI320 C7 removable cable (2 poles double insulation).
- Power consumption : 35 W max.
- ON/OFF control : toggle switch
- Dielectric strength : 3000 VAC between input and output.
- Presentation : polycarbonate case screenprinted.

- PRECISE** : Switching power supply offering a ripple <3mV rms.
- UNIVERSAL** : 12 settings in 2 V steps with ± 1 V adjustment range.
- COMPLETE** : 12 or 24 V lead-acid battery charger function.
- PRACTICAL** : ON/OFF switch, charger position and status indicators.
- PROTECTED** : against short circuits and reverse polarity.
- RESISTANT TO SHOCK** : Polycarbonate case.



60 WATTS

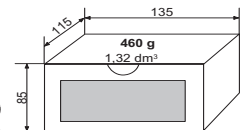
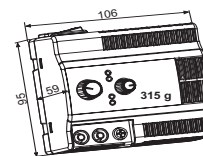
5 V to 29 V

2,5 A to 24 V

3,5 A to 12 V

4 A to 5 V

and lead-acid battery
charger 12 V or 24 V



Specifications

Voltage

- Floating outputs on 4 mm safety sockets.
- Output voltage : adjustable from 5 to 29 V by 12-position switch, and fine adjustment
switch positions : 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28 Volts
fine adjustment range : ± 1 Volt, whatever the switch setting
12 and 24 V lead-acid battery charger positions identified by two LED indicators
- Accuracy : $\pm 1\%$
- Regulation : < 50 mV at 5 V @ 4 A and < 10 mV at 29 V @ 2,1 A for a load variation from 0 to 100%.
< 1 mV at 29 V @ 2,1 A and < 4 mV at 5 V @ 4 A for a line change from -10 to +10%.
- Ripple : < 3 mV rms including:
< 3 mV peak to peak of the 100 kHz signal
< 4 mV peak to peak of the 100 kHz signal
< 10 mV peak to peak of switching transients
- Internal resistance : < 3 m Ω .
- Hold-up time : 25 ms at half load and 12 ms at full load. (190 V line input)
- Indicators : Green LED indicator: "power supply operating"
Yellow LED indicator: "12 V and 24 V charger position"
Red LED indicator: "Status, output fuse broken"

Current

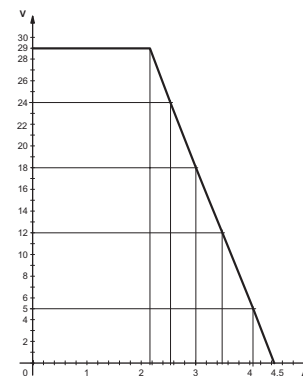
- Max I : 4,2 A in short circuit condition
4 A to 5 V
3,5 A to 12 V
2,5 A to 24 V
2,1 A to 29 V

Charger of the batterie

- Rated capacity of the lead-acid batteries with elctrolyte free: 35 Ah for 12 V and 20 Ah for 24 V.
- Minimum capacity of the lead-acid batteries sealed: 10 Ah for 12 V and 7 Ah for the 24 V.
(In all the cases, to refer to the note of the batteries manufacturer)

Power

- A linear function of voltage from 60 W to 20 W (29 to 5 Volts).



Protection

- Short circuit protection, by current limit.
- Against overcurrent on main input, by fuse.
- Battery reverse polarity protection by output fuse.

Other specifications

- Safety : Classe II, double insulation, according to EN 61010-1 and EN 60335-2-29.
- EMC : Complies with EN 61326-1, performance criteria B, and EN 55011, ISM Group I, Class B.
- Protection level : IP 30.
- Input voltage : 190 to 264 Volts, 50/60 Hz.
- Mains input : C8 socket with CEI320 C7 removable cable (2 poles double insulation).
- Power consumption : 71 W max.
- ON/OFF control : toggle switch
- Dielectric strength : 3000 VAC between input and output.
- Presentation : Polycarbonate case.

EAN CODE : 3760244880215

24 V

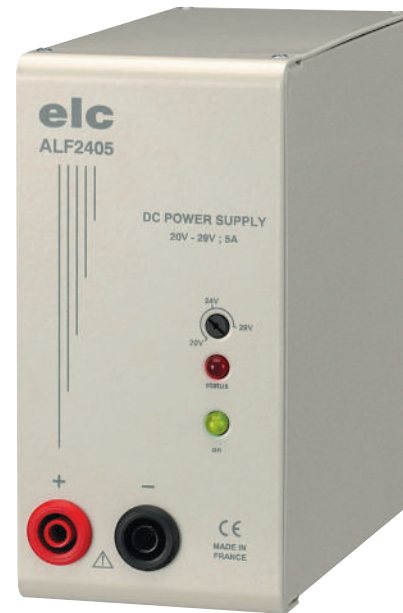
ALF2405

**PRECISE** : Output ripple < 3 mV rms.**COMPLIANT** : EN 61000-3-2 Built in actif power corrector (PFC).**PRACTICAL** : Output voltage adjustable from 20 to 29 V.

- ON/OFF switch, power-on and output fault indicators.

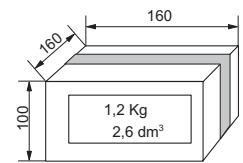
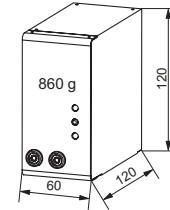
PROTECTED : Short circuit protection.

- Temperature controlled fan cooling.

**120 WATTS**

24 V (Adj. 20 to 29 V)

5 A



Specifications

Voltage

- Floating outputs on 4 mm safety sockets.
- Output voltage : adjustable from 20 to 29 V.
- Regulation : < 20 mV for a load variation from 0 to 100%.
< 1 mV for a line variation from -10 to +10%.
- Ripple : < 3 mV rms including:
< 5 mV peak to peak of the signal at 100 kHz
< 3 mV peak to peak of the signal at 100 Hz
< 40 mV peak to peak of switching spikes
- Hold-up time : 25 ms at half load and 12 ms at full load (190 V line input).
- Indicator : green power-on LED indicator.
"status, output fault" red LED.

Current

- Max I : 5,5 A in short circuit condition.
5 A from 20 to 29 V

Power

- Max output power : 150 W.

Protection

- Short circuit protection, by current regulation.
- Agains overcurrent on main input, by fuse.
- Output overload protection by voltage limit to 33 V.

Other specifications

- Safety : Classe II, double insulation, according to EN 61010-1.
- EMC : Complies with EN 61326-1, performance criteria B, and EN 55011, ISM Group I, Class B.
- Protection level : IP 30.
- Input voltage : 190 to 264 Volts, 50/60 Hz.
- Mains input : C8 socket with CEI320 C7 removable cable (2 poles double insulation).
- Power consumption : 170 W max.
- ON/OFF control : toggle switch
- Power factor : 0.99 (built with PFC).
- Dielectric strength : 3000 VAC between input and output.
- Presentation : metal case with epoxy finish.

EAN CODE : 3760244880222

24 V

ALF2412

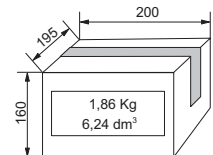
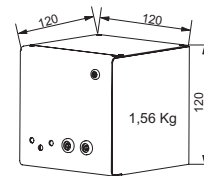
**PRECISE** : Output ripple < 3 mV rms.**COMPLIANT** : EN 61000-3-2 Built in active power corrector (PFC).**PRACTICAL** : Output voltage adjustable from 20 to 30 V.

15 A at 20 V and 10 A at 30 V.

POWERFUL : to cumulate n+1 (Parallel active mode).**PROTECTED** : against short circuit.**QUIET** : Temperature controlled fan cooling.**300 WATTS**

24 V (Adj. 20 to 30 V)

12,5 A



Specifications

Voltage

- Floating outputs on 4 mm safety sockets.
- Output voltage : adjustable from 20 to 30 V with fine adjustment.
- Regulation : < 40 mV for a load variation from 0 to 100%.
< 1 mV for a line variation from -10 to +10%.
- Ripple : < 3 mV rms including :
< 5 mV peak to peak of the signal at 100 kHz
< 3 mV peak to peak of the signal at 100 Hz
< 40 mV peak to peak of switching spikes
- Internal resistance : < 4 mΩ.
- Hold-up time : 25 ms at half load and 12 ms at full load (190 V line input).
- Indicator : green power-on LED indicator.
overheat or overvoltage red LED indicator.

Current

- Max I : 15,5 A in short circuit condition.
15 A at 20 V, 12,5 A at 24 V, 10 A at 30 V.

Power

- Constant output power : 300 W from 20 to 30 V.

Paralleling mode

- Load share controller (1 wire) on 2 mm safety sockets.

Protections

- Against short circuits, by current regulation.
- Against overcurrent on main input, by internal fuse.
- Against output overload, by voltage limit to 33 V.
- Against overheat by controlled fan.

Other specifications

- Safety : Class II, double insulation, complies with EN 61010-1.
- EMC : Complies with EN 61326-1, performance criteria B, and EN 55011, ISM Group I, Class B.
- Protection level : IP 30.
- Input voltage : 190 to 264 Volts, 50/60 Hz.
- Mains input : C8 socket with CEI320 C7 removable cable (2 poles double insulation).
- Power consumption : 360 W max.
- ON/OFF control : toggle switch
- Power factor : 0.99 (built with PFC).
- Dielectric strength : 3000 VAC between input and output.
- Presentation : metal case with epoxy finish.