

Modules equipped with streamlined DC/DC converters, dust & water-resistant IP67, available in two presentations for optimum space saving and heat dissipation:

- **3** : special heat dissipator, mounting on side or front, on DIN rail or wall; connections through 4 streamlined clamps for wires  $\leq 72\text{mm}^2$
- **1** : integrated dynamic cooling with a mini tubed fan, fast racking-out for fan replacement directly by the user after 50,000 hours. Case 96 x 64 x 61 mm thickness, to be mounted on wall or DIN rail. NB. The range of temperatures is limited (-30 to +70°C).

### Electrical data

#### ◆ "Vin" Input (protected against undervoltage)

- 200 to 400V
- no load consumption: < 10mA at 200V
- possible external time-delay fuse: 2.5A
- optional "ON/OFF" remote control

#### ◆ "Vout" Output

- 12V / 15V / 24V / 48V; accuracy: 1%
- optional fit with embedded "10 revolutions" axis:  $\pm 10\%$
- line and load regulation: <  $2.10^{-3}$  of Vout
- temperature coefficient:  $2.10^{-4}$  of Vout, per °C
- switching frequency: fixed ( $\approx 360$  kHz)
- residual ripple:  $\leq 1\%$  of Vout
- nominal efficiency: 88% (losses < 34W)
- dynamic response: < 0.5 ms, with 25% load variation
- permissive capacitive load: 1000µF to >10,000µF depending on load

### Protections

- input-output insulation: 3000V AC. Internal filter on the input
- against overload and short circuit (even constant) by limitation
- in case of inductive load: option "L" will reinforce protection
- "inversion Vin" option: internal diode (external fuse required)
- abnormal temperature rise: automatic shutdown and restarting
- total sealing IP67 (except fan for case **1**)

### Thermal and environmental performances

- storage **3**: -40 to +100°C ; operating **3**: -40 to +90°C
- cooling **3**: natural convection (derating 2.5% per °C)
- temperature rise of the case, at full load: < 35°C
- maximum ambient temperature:
  - 50°C at full power for case **3** (60°C for case **1**)
  - 70°C at half power for cases **3** and **1**
- vibrations, shocks, humidity: protection by epoxy resin

### Standards and specifications

- marking CE/UL60950-1, ICE60950-1, EN60950-1 / RoHS
- flammability for PA 2002: UL94HB, horizontal test
- MTBF case **3**: > 150,000 hours, case at 25°C (MIL-HB217E)
- MTBF fan (easy rapid unplugging): 50,000 hours
- worldwide manufacturers for active parts
- assembling and final controls: ELECDAN-CONVERTER

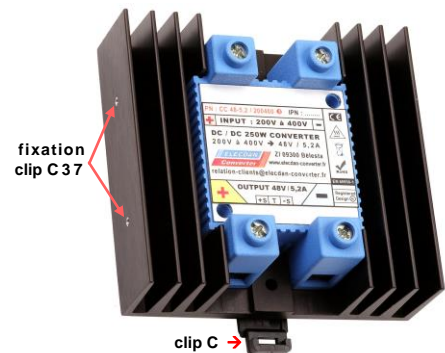
Case mountable on	Dimensions (mm)	Weight	SKU	Connections
<b>3</b> DIN rail & wall	112 x 120 x 37	700g	<b>3</b>	screw terminal, wires $\leq 72\text{mm}^2$
<b>1</b> DIN rail & wall	96 x 64 x 61	380g	<b>1</b>	

OPTIONS and SKU	Vout fit with axis "10 revolutions"	AJ	other Vin and/or Vout	value
	inductive load driving	L	remote sense	T
	"ON / OFF" remote control	H	"inversion" protection	PI

Range & No. sequence	Input range (Volts)	Outputs		no load consu. (mA)	SKU add 3 or 1	Pre-tax price
		Volts	Amp			
9 - 1	200V to 400V	12	21	< 10 at 200V	CC 12-21 / 200400	
9 - 2		15	16.5		CC 15-16.5 / 200400	
9 - 3		24	10.5		CC 24-10.5 / 200400	
9 - 4		48	5.2		CC 48-5.2 / 200400	

#### Case **3** to be mounted on wall or DIN rail

wall	front 112 x 120 : two holes $\varnothing 4.5$ mm, vertical fixing distance 90 mm	
clip	front 112 x 37 : two M3, vertical fixing distance 50 mm	face 112 x 37 : clip C 37



- Case **1** 64 x 96 x thickness 61 mm ; with built-in fan
- DIN rail mounting
  - wall mounting (vertical fixing distance 85 mm)

