

Modules equipped with streamlined DC/DC converters, dust & water-resistant IP67, available in two presentations with different thermal resistance:

- **4** : thermal resistance 1°C/W ; can be mounted on front or side, on wall or DIN rail; connections through 4 streamlined clamps for wires $\leq 72\text{mm}^2$.
- **4S** : thermal resistance $0,5^{\circ}\text{C/W}$; a symmetrical dissipator "225 S" is added to case **4**, which doubles the thickness (74 mm instead of 37 mm).

Electrical data

◆ "Vin" Input (protected against undervoltage)

- 36 to 75V (accidental max.: 100V / 0.1s)
- no load consumption: 90mA to 100mA (see table)
- possible external fuse: 25A
- optional "ON/OFF" remote control

◆ "Vout" Output

- 24V / 28V / 48V; accuracy: 1%
- optional fit with embedded "10 revolutions" axis: $\pm 10\%$
- line and load regulation: $< 2 \cdot 10^{-3}$ of V_{out}
- temperature coefficient: $2 \cdot 10^{-4}$ of V_{out} , per $^{\circ}\text{C}$
- switching frequency: fixed ($\approx 450\text{ kHz}$)
- residual ripple: $\leq 1\%$ of V_{out}
- nominal efficiency: 90% (losses $\leq 50\text{W}$)
- dynamic response: 0.2 ms, with 25% load variation
- permissive capacitive load: $2200\mu\text{F}$ to $\geq 22,000\mu\text{F}$ depending on load

Protections

- input-output insulation: 1500V DC. 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

Thermal and environmental performances

- storage: -40 to $+100^{\circ}\text{C}$; operating: -40 to $+90^{\circ}\text{C}$
- cooling: natural convection (derating 2.5% per $^{\circ}\text{C}$)
- temperature rise of the case, at full load: $+50^{\circ}\text{C}$
- maximum ambient temperature:
 - at full power: 40°C for case **4** and 65°C for case **4S**
 - at half power: 65°C for case **4** and 77°C for case **4S**
- vibrations, shocks, humidity: protection by epoxy resin

Standards and specifications

- marking CE/UL60950-1, ICE60950-1, EN60950-1 / RoHS
- flammability: UL94HB, horizontal test
- MTBF $> 5 \cdot 10^5$ hours, case at 25°C
- worldwide manufacturers for active parts
- assembling and final controls: ELECDAN-CONVERTER

Case mountable on	Dimensions (mm)	Weight	SKU	Connections
4 DIN rail & wall	225 x 120 x 37	1150 g	4	screw terminal wires $\leq 72\text{ mm}^2$
4S DIN rail & wall	225 x 120 x 74	2260 g	4S	

OPTIONS and SKU	Option	Code	Description	Value
	Vout fit with axis "10 revolutions"	AJ	other V_{in} and/or V_{out}	value
	inductive load driving	L	symmetrical dissipator	225 S
	"ON / OFF" remote control	H	"inversion" protection	PI

Range & No. sequence	Input range (Volts)	Outputs		no load consu. (mA)	SKU aadd 4 or 4S	Pre-tax price
		Volts	Amp			
11 - 1	36V to 75V	24	1.8	90	CC 24-18 / 3675	
11 - 2		28	1.6	100	CC 28-16 / 3675	
11 - 3		48	9.3	100	CC 48-9.3 / 3675	
New options (please contact us)		❶ output choice: 24V to 30V; efficiency: 95% ❷ output: 0 to 60V; internal or external setting				

Case 4S
(Case **4** + symmetrical dissipator 225S)



Mounting on wall or DIN rail

❶ Wall :

- front 225 x 120: two holes $\varnothing 4.5\text{ mm}$, vertical fixing distance: 90 or 200 mm
- side 225 x 37: two M3, vertical fixing distance: 50 mm

❷ Clip :

- front 225 x 120: clip C 225
- side 225 x 37: clip C 37