

With its optimized shape and volume for efficient natural convection cooling, this case can be mounted on wall (on the side) or on DIN rail (on front or side). Connections are made through 4 streamlined clamps for wires $\leq 40 \text{ mm}^2$. Thermal resistance is 0.5°C/W and can be reduced to 0.25°C/W if required, with optional air flow of 4 m/s.

Electrical data

- ◆ **"Vin" Input** (protected against undervoltage)
 - 36 to 75V (accidental max.: 100V / 0.1s)
 - no load consumption: 400mA at 48V
 - possible external *time-delay* fuse: 120A
 - optional "on/off" remote control
- ◆ **"Vout" Output**
 - 48V; accuracy: 1%
 - optional fit with embedded "10 revolutions" axis: $\pm 2\%$
 - line regulation: $< 4 \cdot 10^{-3}$ of Vout
 - load regulation: $\leq 1\%$
 - temperature coefficient: $\leq 2 \cdot 10^{-4}$ of Vout, per $^\circ\text{C}$
 - residual ripple: $\leq 1\%$ of Vout
 - nominal efficiency: 95% (losses $\approx 66\text{W}$)
 - dynamic response: $< 2 \text{ ms}$, with 25% load variation
 - permissive capacitive load: 1200 μF to $\geq 15,000\mu\text{F}$ depending on load

Protections

- input-output insulation: 1500V DC. Internal filter on the input
- against overload and short circuit (even constant)
- 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: -55 to $+125^\circ\text{C}$; operating: -40 to $+85^\circ\text{C}$
- cooling: natural convection (derating $< 3\%$ per $^\circ\text{C}$)
- temperature rise of the case, at full load: $\leq 33^\circ\text{C}$
- maximum ambient temperature:
 - 50°C at full power (68°C with optional ventilation 4 m/s)
 - 68°C at half power
- vibrations, shocks, humidity: protection by epoxy resin

Standards and specifications

- marking CE / UL / C UL60950-1 / RoHS
- flammability for PA 2002: UL94HB, horizontal test
- MTBF: $> 150,000$ hours, case at 25°C
- worldwide manufacturers for active parts
- assembling and final controls: **ELECDAN-CONVERTER**

| Case mountable on | Dimensions (mm) | Weight | SKU | Connections |
|-------------------|-----------------|--------|------|--|
| DIN rail & wall | 225 x 120 x 74 | 2260 g | 4HRS | screw terminal, wires $\leq 40 \text{ mm}^2$ |

| OPTIONS and SKU | | | | |
|-------------------------------------|----|---------------------------|----|--|
| Vout fit with axis "10 revolutions" | AJ | "ON / OFF" remote control | H | |
| inductive load driving | L | "inversion" protection | PI | |

| Range & No. sequence | Input range (Volts) | Outputs | | no load consu. (mA) | SKU | Pre-tax price |
|--|---------------------|---------|-----|---------------------|-----------------------|---------------|
| | | Volts | Amp | | | |
| 15 - 1 | 36V to 75V | 48 | 26 | 800 | CC 48/26-41/3675/4HRS | |
| Peak current: 41A / 5 seconds / minute | | | | | | |

Case 4HRS
(Case 4HR + symmetrical dissipator 225S)



Mounting on wall or DIN rail

- 1 Wall :
 - front 225 x 120: two holes $\varnothing 4.5 \text{ mm}$, vertical fixing distance: 200 mm
 - side 225 x 37: two M3, vertical fixing distance: 50 mm
- 2 Clip :
 - front 225 x 120: clip C 225
 - side 225 x 37: clip C 37