Cast LINEAR supply, miniature and powerful

with linear regulation, single source, dual source, and triple source

(4271)
29/06/16

Modules manufactured in France and interchangeable with various foreign models

Highly reliable mini-modules, mains powered, with maximum thermal dissipation facilitated by epoxy resin internal casting.

Being encapsulated, this power supply becomes a simple component, compact, tropicalized, isolated, and unaffected by moisture or vibrations.

90 basic models, single, dual or triple source, provide fixed or adjustable voltage 5 to 48V *(0 to 500V **upon request**)*, from 6W to 24W (and new: powers up to 72W).

30 common options offer even more possibilities.

In the standard version, cases are equipped with 2 M3 inserts and 1mm ∅ pins for mounting on printed circuit.

3 other optional mounting possibilities:

1) **mounting on wall**: with "**B**" or "**BV**" block
2) **mounting on DIN rail**: 2 steel clips "**C**" to be simply adapted
3) **mounting on DIN rail**: special "**RD**" case for DIN rail

Electrical data

- "**V**in" **input**: 230V ±10% / 50 to 400Hz
- "**V**out" **output**:
  - **fixed** voltage model: 1% of nominal Vout (at 20°C)
  - **adjustable** voltage model: with integrated setting
- **Linear regulation**:
  - mains supply 230V varying up to ± 10%: < 10^{-3} of Vout
  - load ranging from 0 to maximum:
    - 4.10^{-3} of Vout for models ≤ 6V
    - 2.10^{-3} of Vout for models > 6V
- **Response time**: < 30µs
- **Residual ripple**: < 1mV rms (< 5.10^{-4} for 48V to 500V)
- **Dielectric strength inputs / outputs**: > 2500V rms under 5mA
- **Isolation inputs / outputs**: 4000V DC under 1mA during 1 minute
- **Isolation outputs / mechanical grounding**: > 100MΩ under 500V

Protections

- **Overloads and short circuits**: fast limitation of the current
- **Excessive temperature rise**: firstly, automatic and progressive limitation of the current, and secondly, shutoff.
- **Sealing**: IP67 *(except for connections)*
- **Possible external *time-delay* fuse**:
  i ≈ power supply (W) / 50V; example: for a supply 5V / 2A → 0.2 A fuse

Standards

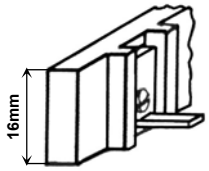
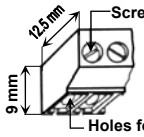
- **EN50081**
- **EN50082**
- **EN60950**
- **RoSH**

Thermal performances

- **Storage**: -40 to +85 °C
- **Operating temperature**: -30 to +70°C with 2% decrease of current per degree from 45°C, *or from 50°C for metallic cases*
- **Temperature coefficient**: ≤ 2.10^{-4} of Vout per degree °C

Mounting

- **Two M3 inserts** for cases T1,T2, T3, and T4 on its big face
- **Four M3 inserts** for cases U and U1

Option No.	To be added to SKU	OPTIONS & ACCESSORIES
1	B	 **"Faston" block** lugs 2.85mm
2	BV	 Screws to tighten wires **Screw-block** Holes for connections 2.5mm²
3	FL	Multicolored output wires
4	C	Adaptation for DIN rail: 2 steel clips to screw
5	RD	Special case for DIN rail
6	Q	Plate for screw terminal shroud
7	T	Sockets ∅ 4mm + ON/OFF switch + LED + cord
8	M	Aluminum case 6 faces
9	24/48	Other input voltages instead of 230V { 24 or 48V~
10	115	115V~
11	400	400V~
12	110/230	Dual input voltage
13	write output voltage	Other output voltages *(upon request)* { for Vs > 24V; for Vs ≥ 24V (upto 100V)
14	E	Metal shield *(protecting against fast parasites)*
15	F	Built-in fuse holder
16	10T	**10 turns potentiometer** (instead of single-turn) for each channel; adjustment ±10%
17	PD	Remote adjustment potentiometer
18	P	Protection against output overloads
19	H / HG	Non isolated / isolated remote ON/OFF
20	TEL	Remote sense *(for each channel)*
21	CR	Adjustable output current from 0 to nominal **i**
22	CS	Detection of mains outages within 2 ms
23	DSHB	Thresholds (high and low) detection, adjustable
24	HR Hstab	High regulation of mains 10^{-5} High thermal stability 2.10^{-5} / °C
25	PT	Controllable output voltage (by 0 to 10V)
26		Printing { specific templates labels
27	IC / IT	Copy 0 to 10V, current / voltage
28	CEA	Eurocard (100x160mm) + H15 terminal + front panel
29	TEA	3U rack + H15 terminal
30	RAD	Dissipator 27mm

✱ ***Upon request***: other voltages, currents, adjustments, presentations, etc.

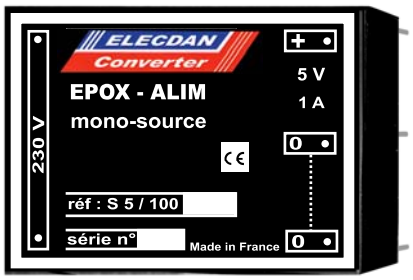
Cast LINEAR supply, miniature and powerful
with linear regulation, single source, dual source, and triple source

ELECDAN Converter

(4273)
29/06/16

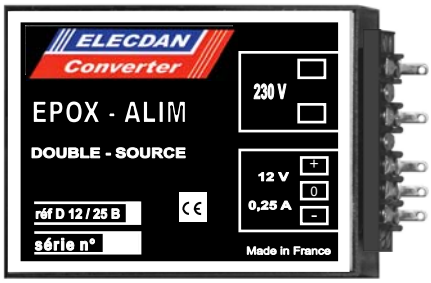
SINGLE SOURCE

Cases Dimensions (mm) Weight	SKU	Output voltage Output current Vout / Iout
R1 (epoxy housing) Outputs only on pins **40 x 40 x 22 ; 100g**	S 5 / 12	05V / 0.12A
	S 12 / 06	12V / 0.06A
	S 15 / 05	15V / 0.05A
	S 18 / 03	18V / 0.03A
	S 24 / 02	24V / 0.025A
S (epoxy housing) Outputs on pins, Faston or screw terminals **51 x 51 x 26 ; 200g**	S 5 / 20	5V / 0.2A
	S 12 / 10	12V / 0.1A
	S 15 / 08	15V / 0.08A
	S 18 / 06	18V / 0.06A
	S 24 / 05	24V / 0.05A
T1 (epoxy housing or 6 faces aluminum) Outputs on pins, Faston or screw terminals **89 x 64 x 26 ; 450g** Option RD available	S 5 / 50	5V / 0.5A
	S 12 / 25	12V / 0.25A
	S 15 / 20	15V / 0.2A
	S 18 / 15	18V / 0.15A
	S 24 / 12	24V / 0.12A
	S 48 / 06	48V / 0.06A
T2 (epoxy housing or 6 faces aluminum) Outputs on pins, Faston or screw terminals **89 x 64 x 32 ; 550g** Option RD available	S 5 / 100	5V / 1A
	S 12 / 50	12V / 0.5A
	S 15 / 40	15V / 0.4A
	S 18 / 30	18V / 0.3A
	S 24 / 25	24V / 0.25A
	S 48 / 12	48V / 0.12A
T3 (epoxy housing or 6 faces aluminum) Outputs on pins, Faston or screw terminals **89 x 64 x 41 ; 750g** Option RD available	S 5 / 150	5V / 1.5A
	S 5 / 200	5V / 2A
	S 12 / 75	12V / 0.75A
	S 12 / 100	12V / 1A
	S 15 / 60	15V / 0.6A
	S 15 / 80	15V / 0.8A
	S 18 / 45	18V / 0.45A
	S 24 / 35	24V / 0.35A
	S 48 / 15	48V / 0.15A
T4 (epoxy housing or 6 faces aluminum) Outputs on pins, Faston or screw terminals **89 x 64 x 49 ; 780g** Option RD available	S 5 / 240	5V / 2.4A
	S 12 / 120	12V / 1.2A
	S 15 / 100	15V / 1A
	S 18 / 60	18V / 0.6A
	S 24 / 50	24V / 0.5A
	S 48 / 20	48V / 0.2A
U (epoxy housing) Outputs on pins, Faston or screw terminals **100 x 100 x 42 ; 1.4kg** Option RD available	S 5 / 300	5V / 3A
	S 12 / 150	12V / 1.5A
	S 15 / 120	15V / 1.2A
	S 18 / 90	18V / 0.9A
	S 24 / 75	24V / 0.75A
	S 48 / 40	48V / 0.4A
U1 (epoxy housing) Outputs on pins, Faston or screw terminals **100 x 100 x 55 ; 1.5kg** Option RD available	S 5 / 400	5V / 4A
	S 12 / 200	12V / 2A
	S 15 / 150	15V / 1.5A
	S 18 / 120	18V / 1.2A
	S 24 / 100	24V / 1A
	S 48 / 50	48V / 0.5A
U2 (metallic housing) Version for wall mounting: Faston or screw terminal Version mounting with RD: external screw terminal **170 x 121 x 55 ; 3kg**	S 5 / 500	5V / 5A
	S 12 / 250	12V / 2.5A
	S 15 / 200	15V / 2A
	S 24 / 125	24V / 1.25A
U3 (metallic housing) Version for wall mounting: Faston or screw terminal Version mounting with RD: external screw terminal **170 x 121 x 87 ; 3.3kg**	S 5 / 800	5V / 8A
	S 12 / 400	12V / 4A
	S 15 / 320	15V / 3.2A
	S 24 / 200	24V / 2A
U4 (metallic housing) Version for wall mounting: Faston or screw terminal Version mounting with RD: external screw terminal **223 x 150 x 78 ; 4.8kg**	S 5 / 1200	5V / 12A
	S 12 / 600	12V / 6A
	S 15 / 400	15V / 4A
	S 24 / 300	24V / 3A

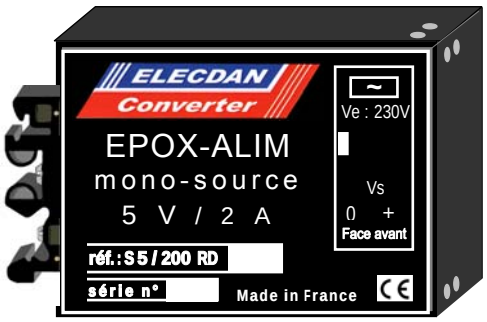


Standard outputs on pins

***Optional* outputs on**
screw terminal
(add BV at the end of SKU)



***Optional* outputs on**
Faston terminal
(add B at the end of SKU)



***Optional* case for**
DIN rail
(add RD at the end of SKU)

***Upon request*: other presentations; adjustable, controllable, or fixed voltages and currents**

SINGLE SOURCE with built-in setting

Cases (see caracteristics in the left table)	SKU	Output voltage Output current Vout / Iout
R1	SR 6 / 08	3 to 6V / 0.08A
	SR 12 / 04	5 to 15V / 0.04A
S	SR 6 / 15	3 to 6V / 0.15A
	SR 12 / 07	5 to 15V / 0.075A
T1	SR 6 / 40	3 to 6V / 0.4A
	SR 12 / 10	5 to 15V / 0.1A
T2	SR 6 / 80	3 to 6V / 0.8A
	SR 12 / 20	5 to 15V / 0.2A
T3	SR 6 / 120	3 to 6V / 1.2A
	SR 6 / 160	3 to 6V / 1.6A
	SR 12 / 30	5 to 15V / 0.3A
T4	SR 12 / 40	5 to 15V / 0.4A
U	SR 6 / 200	3 to 6V / 2A
	SR 12 / 60	5 to 15V / 0.6A

DUAL SOURCE

S	D 5 / 10	± 5V / 0.1A
	D 12 / 04	± 12V / 0.04A
	D 15 / 03	± 15V / 0.03A
T1	D 5 / 25	± 5V / 0.25A
	D 12 / 12	± 12V / 0.12A
	D 15 / 10	± 15V / 0.1A
T2	D 5 / 50	± 5V / 0.5A
	D 12 / 25	± 12V / 0.25A
	D 15 / 20	± 15V / 0.2A
T3	D 5 / 60	± 5V / 0.6A
	D 5 / 80	± 5V / 0.8A
	D 12 / 35	± 12V / 0.35A
	D 12 / 50	± 12V / 0.5A
	D 15 / 30	± 15V / 0.3A
	D 15 / 40	± 15V / 0.4A
T4	D 5 / 100	± 5V / 1A
	D 12 / 60	± 12V / 0.6A
	D 15 / 50	± 15V / 0.5A
U	D 5 / 12	± 5V / 1.2A
	D 12 / 80	± 12V / 0.8A
	D 15 / 70	± 15V / 0.7A
U1	D 5 / 150	± 5V / 1.5A
	D 12 / 100	± 12V / 1A
	D 15 / 80	± 15V / 0.8A
U2	D 12 / 125	± 12V / ± 1.25A
	D 15 / 100	± 15V / ± 1A
U3	D 12 / 200	± 12V / ± 2A
	D 15 / 160	± 15V / ± 1.6A
U4	D 12 / 300	± 12V / ± 3A
	D 15 / 240	± 15V / ± 2.4A

TRIPLE SOURCE

T2	T 5 / 12	5V & ± 12V / 0.5A & ± 0.12A
	T 5 / 10	5V & ± 15V / 0.5A & ± 0.1A
T3	T 5 / 25	5V & ± 12V / 0.5A & ± 0.25A
	T 10 / 12	5V & ± 12V / 1A & ± 0.12A
	T 5 / 20	5V & ± 12V / 0.5A & ± 0.2A
	T 10 / 10	5V & ± 15V / 1A & ± 0.1A
U	T 10 / 30	5V & ± 12V / 1A & ± 0.3A
	T 10 / 25	5V & ± 15V / 1A & ± 0.25A