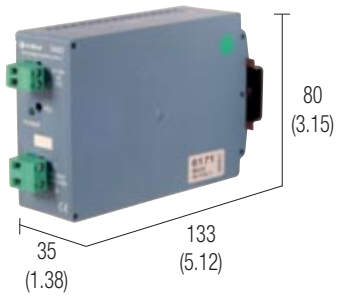
Switching power supply with 5-15 Vdc adjustable regulated output



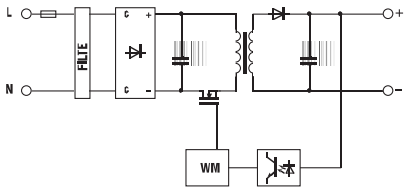
- Class 2 isolation device, does not require GND connection
- Input voltage 90–264 Vac / 110 Vdc - 230 Vdc
- 5–15 Vdc adjustable output voltage with trimmer on front panel
- Compact dimension for DIN rail mounting
- Suitable for SELV and PELV circuitry

5 Vdc 3 A @ 45°C
12 Vdc 2 A @ 45°C
15 Vdc 1,5 A @ 45°C

NOTES

Dimensions indicated on drawings and photos, are overall dimensions, are inclusive of external components such as terminal blocks and Din-rail clamps.
(1) With 110 – 127 Vdc input voltage, the output current must be derated by 25%.

BLOCK DIAGRAM



APPLICATIONS

With 120-230 Vac input range, are suitable in every supply mains world wide.
The devices comply with IEC and EN EMC Standards for Building atomation applications without any external filter. Engineering has been focused on achieving a high efficiency allow to reduce energy consumption and operating temperature of the components. High efficiency moreover makes available over +20% power boost at operating temperature of 45°C, without exceeding the standard temperature limits and guaranteeing safety and reliability.
Short-circuit - overload - over temperature protections are set to give +150% of the rated current to feed heavy loads, start-up currents, while the over temperature protection prevents failure of the power supply also in case of long overload duration with high ambient temperature.
Output is adjustable and overvoltage protected. The housings assure a high ventilation of internal components, compact dimensions and a IP20 protection degree according to IEC529 Std.
Battery charger:
these units are suitable as battery chargers while feeding other loads.
To allow a power supply to charge batteries, we developed the cost effective CSBC module (Cat. No. XCSBC), featuring protection diodes, current charge limiting resistor and battery protection fuse. For more details, refer to the accessories section.

VERSIONS

CS7 Cod. XAS7

INPUT TECHNICAL DATA

Rated voltage	**90 – 264 Vac** / 110 – 300 Vdc (1)
Frequency	50 – 60 Hz
Current @ Iout max	240 mA @ 120 Vac / 88 mA @ 230 Vac ± 10%
Inrush current	< 20 A
Power factor	> 0.6 full load
Protection fuse	T 0.8 A - internal, replaceable

OUTPUT TECHNICAL DATA

Voltage	**5 – 15 Vdc** (adjustable)
Maximum current	3.5 A overload limit
Continuous current	**3 A @ 5 Vdc / 2 A @ 12 Vdc / 1.5 A @ 15 Vdc** @ 45°C
Load regulation	< 1 %
Ripple @ rated U-I output	≤ 50 mVpp
Hold up time	> 100 ms @ 230Vac full load
Overload/short circuit protection	Hiccup circuit, auto reset
Output signal	–
Parallel connection	possible with external oring diode
Redundant parallel connection	

APPROVALS

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GENERAL TECHNICAL DATA

Efficiency	≥ 85% @ 230 Vac, ≥ 82% @ 120 Vac
Dissipated power	< 4 W
Operating temperature	–20 ... +60°C, with overtemperature protection
Input / output isolation	3 kVac / 60 s
Input / ground isolation	Class 2 without PE connection
Output / ground isolation	Class 2 without PE connection
Protection degree	IP 30
Standard / Approvals	EN 60950, IEC950
EMC standards	EN 50081-1, EN 50082-1, EN 61000-3-2,3
Surge immunity	EN61000-4-2, EN61000-4-4, EN 61000-4-5
Connection terminal blocks	2.5 mm², screw type pluggable
Housing material	polyamide UL94V-0
Approximative weight	300 g (10.50 oz)
Mounting information	Vertical on rail, allow 10 mm spacing between adjacent components
Mounting rail ⎍ according to IEC60715/TH35-7.5	**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**