



The switching power supply units provided by FLS are designed and developed for industrial uses where safety, ease of use and reliability are essential.

The low working temperature at full power, combined with the use of first quality components ensure a very high lifetime. This power supply is very compact and meets IP30 standards according to IEC 529. All the functions are located on the front panel and marked with IEC symbols for a very simple use even on site. Providing an output capacity of 1 A, these power supplies are suitable for systems including FLS instruments or other devices requiring 24VDC operation.

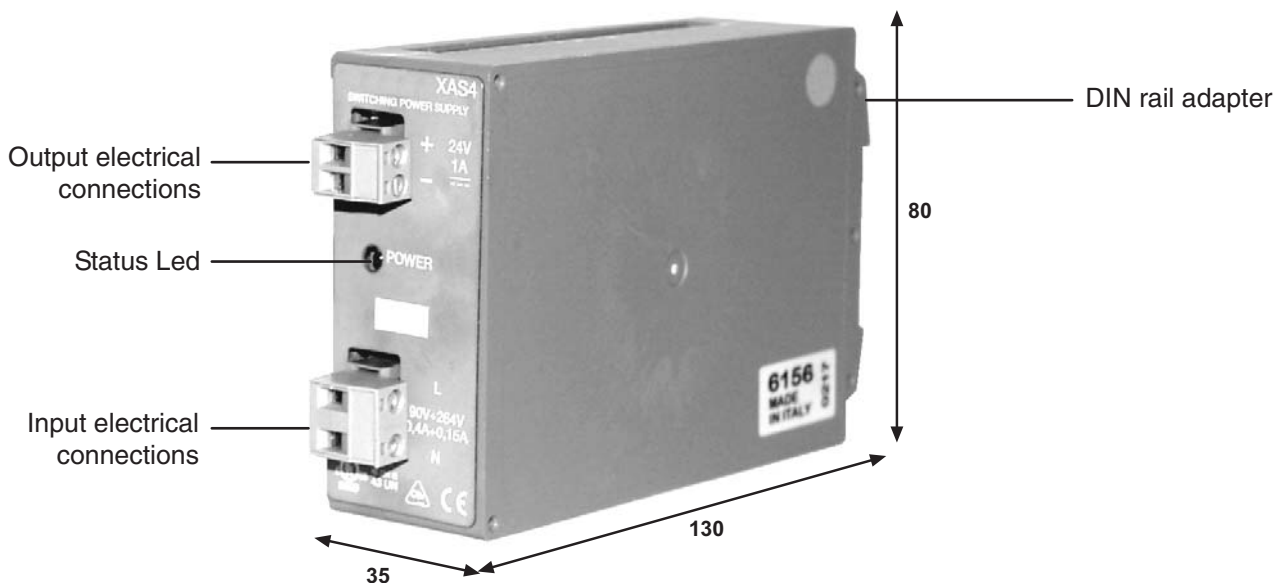
Main Features

- Universal AC input: 90 - 264 VAC.
- Regulated 24 VDC output.
- Fused input.
- Output capacity: 1 A.
- Compact dimensions.
- Low noise.
- DIN rail mounting.
- Functions and descriptions on the front panel.

Applications

- Suitable for use with:
- Flow sensors: F3.00.H, F3.15.H, F3.30.H, F111.H.
 - Ultra Low Flow Sensors: ULF01.H, ULF03.H, ULF3.15, ULF3.30.
 - Flow switches F3.05.
 - Electromagnetic Flow Sensors: F3110M, F3111M.
 - Flow Monitor & Transmitters F9.00.
 - Batch Controllers F9.50

Technical Data and Dimensions



Depth dimension includes electrical connectors and DIN rail adapter.

Technical Data

Input

- Input Voltage: 90 – 264 VAC.
- Frequency: 50 – 60 Hz.
- Current with load Max: 440 mA @ 120 VAC, 165 mA @ 230 VAC ± 10%.
- Inrush current at cold start (230 VAC): < 20 mA.
- Power factor: > 0.6 @ full load.
- Protection Fuse: T 0.8 A (inside mounted).

Output

- Voltage: 24 VDC – 0 + 5% (not adjustable).
- Max. Current: 1.2 A.
- Continuous Current: 1 A.
- Load regulation: < 1.5%.
- Ripple with load Max: < 50 mVpp.
- Hold up time: > 100 ms @ 230 VAC, > 10 ms @ 90 VAC.
- Overload/Short circuit protection: Hiccup circuit, auto reset.
- Parallel connection: possible with external protection diode.

General

- Efficiency: ≥ 85% @ 230 VAC, ≥ 80% @ 115 VAC.
- Dissipated power: < 6 W.
- Working temperature: -10 ÷ 60°C (140°F), -0.033 A/°C (-0.018 A/°F) over 45°C (113°F).
- Input/output isolation: 3 KVCA / 60 s.
- Input/ground isolation: > 1.5 KVCA / 60 s.
- Output/ground isolation: 0.5 KVCA / 60 s.
- Protection class: IP30.
- Connection terminal blocks: 2.5 mm², pluggable.
- Housing material: polyamide UL94V-0.
- Mounting information: vertical on DIN rail.

Standards & Approvals

- Safety Directives: EN 60950, IEC950, UL 1950, UL508C.
- EMC Directives: EN 50081-1, EN 50082-2, EN 61000-3-2.
- Surge immunity: EN61000-4-2, EN 61000-4-4, EN 61000-4-5.



Ordering Data

Switching Power Supply

Part No.	Input	Output	Description
F.PSCS4	90 – 264 VAC	24 VDC regulated	Single Phase Power Supply 24VDC, 1 A