



Power supplies for stable AS-i networks.



Primary switched-mode power supplies, compact and powerful.

- ▲ Wide-range input, single phase 100...240 V AC $\pm 10\%$.
- ▲ Low cabinet control heating due to high degree of efficiency.
- ▲ UL Limited Power Source AC1336.
- ▲ Power supplies for the fully expanded AS-i system.

Wide-range power supply

cULus approval

High excess gain

Fewer failures

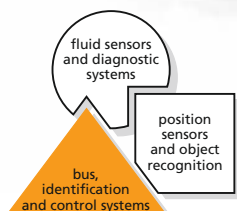
Stable AS-Interface systems

AS-i power supplies have a great share in the success of AS-i as a wiring system for sensors and actuators. They are the basis for the very high noise immunity of the system in industrial environments.

The quality of the power supplies ensures reliable decoupling of the network from interference in the primary supply. Balancing of the AS-i voltage reduces the effects of electromagnetic influence to a minimum.

Fully expanded AS-Interface

Using the AS-i power supplies from ifm electronic the AS-i networks can be set up reliably and economically up to a length of 100 m to 1000 m when taking additional measures.



Advantages and customer benefits

Mains buffering time (e.g. AC1236):
up to 330 ms at 230 V nominal voltage

High efficiency:
up to 90 % guarantees less power loss

Wide-range input:
input voltage 100...240 V AC ± 10 %

Protection:
with common circuit-breakers,
10 A, type B

Output response:
short-circuit proof
overload protected
no-load protected

Indication:
LED green: AS-i voltage OK

Ambient temperature:
operating temperature 0...70 °C
storage temperature -25...85 °C
derating from 60 °C

Designs:
PSA: robust metal housing
screw terminals
PSB: compact plastic housing
cage clamps

Products

Description	Order no.
Type PSA: metal housing	
AS-i switched-mode power supply single phase 2.8 A	AC1236
AS-i switched-mode power supply single phase 4 A	AC1244
Type PSB: plastic housing	
AS-i switched-mode power supply single phase 1 A	AC1220
AS-i switched-mode power supply single phase 1.9 A	AC1221

Functions

- Data decoupling**
Due to the integrated data decoupling both data and supply voltage for the AS-i slaves and the connected sensors can be transferred via one single two-wire cable. Data decoupling ensures balancing of the AS-i voltage and thus an optimum noise immunity of the AS-i system.
- Output response**
Besides the common short-circuit, overload and no-load protection the AS-i power supplies have an especially high mains buffering time of up to 330 ms. Therefore the power supplies are very tolerant of disruption in the mains supply.

Dimensions

