

ACM60/KS



ACM60/Ks, the compact 60 W DC/DC converter for defence.

The flyback topology of the ACM60/Ks clocks at typ. 65 kHz and has a high efficiency with excellent EMC characteristics. Additional filtering of the plug-and-play converter is not necessary.

The input range is designed for continuous operation from 9 V to 60 V, with voltage peaks of up to 80 V (≤ 1 s). The converter therefore remains unaffected by the voltage dips and peaks that frequently occur in vehicles.

The ACM60/Ks fulfils the EMC requirements according to MIL-STD-461G (Navy Mobile and Army), MIL-STD-1275E and DEF STAN 61-5 Part 6 (Load Dump).

Environmental influences such as shock, vibration, impacts and salt spray are fulfilled in accordance with MIL-STD-810H.

Facts

Input:

- 9...60 V with soft start (<300 ms)

Output

- 12 V

Power

- 60 W, continuous

Others

- Efficiency up to 85 %
- 60 V up to 80 V_{in} for ≤ 1 s
- OVP, OCP, OTP
- No minimum load
- Short circuit proof
- Enable-Signal
- Inrush current limitation

Applications

- Box-PCs
- Displays
- Illuminations
- Controls
- and many more

Areas of application

- Defense
- Vehicles in harsh environmental conditions