

PRODUCT INFORMATION

PS09-60-01A

High efficiency DC / DC - converter with wide input voltage range for battery operated devices

*ECS
...weil es uns Spaß macht,
das Unmögliche zu tun.*

The **PS09-60-01A** by ECS provides power for battery-operated devices. This DC / DC converter is designed for a very low own consumption. At low current drain it automatically switches to the most economical mode (burst mode). **PS09-60-01A** can be operated as a buck or boost converter, the switching is automatic. The output voltage required can be easily adjusted on the DIL switches. Ideal to supply our current sensors or the RS485 interface in our LiPro1-1 RS485.



Features

- ◆ Output voltages 3,3 V / 5 V / 9 V / 12 V / 15 V DC
- ◆ Wide input range 9 V - 60 V DC
- ◆ Suitable for 12 V, 24 V and 48 V battery systems
- ◆ Automatic burst mode (power saving mode)
- ◆ Automatic switching between buck mode (Buck) and Step Up (Boost mode)
- ◆ Maximum 200 uA internal current consumption in burst mode
1 mA maximum consumption in normal mode
- ◆ Output current up to 300 mA at buck mode
- ◆ Output current up to 100 mA at in step-Up mode (Boost mode)

ECS
Electronic Construction Service
Isseler Str. 49
54338 Schweich
www.ecs-online.org
Germany

PRODUCT INFORMATION

PS09-60-01A

High efficiency DC / DC - converter with wide input voltage range for battery operated devices

ECS
*...weil es uns Spaß macht,
das Unmögliche zu tun.*

Mechanical data

- ◆ Dimensions 68 mm x 58 mm x 30 mm
- ◆ Weight 0,1 kg
- ◆ Max. cable size AWG 26 - 16
- ◆ Protection class IP00

Electrical specifications

- ◆ Input voltage range 9 V to 60 V
- ◆ Output voltage 3,3 V / 5 V / 9 V / 12 V / 15V
- ◆ Maximum output current buck regulator 300 mA
- ◆ Maximum output current boost converter 100 mA
- ◆ Self power consumption < 200 μ A (Burst Mode)
< 1 mA (Normal Mode)

Converter efficiency

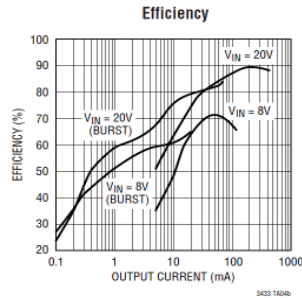


Figure 1: Typ. Efficiency at 12V output voltage

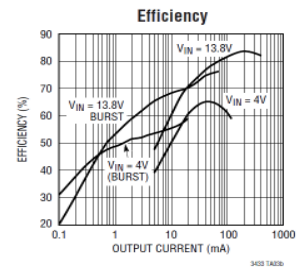


Figure 2: Typ. Efficiency at 5V output voltage

Environmental Data

- ◆ Ambient temperature - 20 °C to + 45 °C
- ◆ Storage temperature - 20 °C to + 85 °C