

# Stabilised DC power supply

## Type HAS

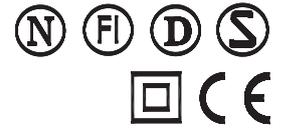
Single-phase electronically stabilised DC power supply. Standard voltages from 5 to 28 VDC. Designed and tested according to norm EN60065 and approved by NEMKO, SEMKO, FIMKO and DEMKO. Compact design. Separate insulated windings moulded in self-extinguishing polyurethane and capsulated in plastic. Insulation class II. Built-in fuse and electronically protected against short circuit. Output voltage can be adjusted 10% using a built-in potentiometer. Portable design with mounted mains voltage cable (2m) and EUR-plug, secondary cable 1m.

### Application:

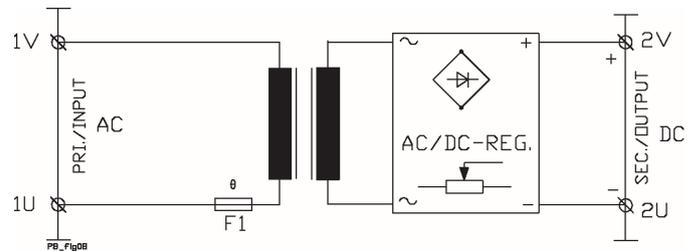
Designed as power supply to electronic control cards and other electronics requiring stabilised DC voltage. Can under certain circumstances operate combined as power supply and constant voltage battery charger.

### Technical specifications

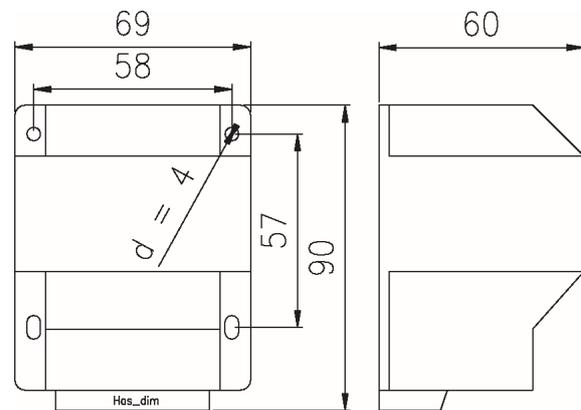
- Input voltage: 230V +/-6%
- Frequency: 47-63Hz
- Output voltage: 5VDC - 28VDC
- Max Ripple: 0,2% RMS
- Efficiency: >44%
- Voltage adjustment: ±10%
- According to: EN60065
- Test/insulating voltage: 4kV AC RMS
- Construction class: II
- Insulation class: B (130°C)
- Ambient temp. ( $t_a$ ): 40°C
- Degree of protection: IP44



### Wiring diagram



### Dimensions



Type	Voltage Sec. DC (V)	Current Sec. (A)	Power (VA)	Losses (W)	Dimensions Ax B x C (mm)	Weight (Kg)	Art. no.
HAS 8-5	5	1,5*	8	13	69x90x60	1,0	3-190 500060
HAS 9-6	6	1,5*	9	14	69x90x60	1,0	3-190 500070
HAS 14-9	9	1,5*	14	17	69x90x60	1,0	3-190 500100
HAS 12-12	12	1,0	12	13	69x90x60	1,0	3-190 500080
HAS 14-14	13,8	1,0	14	14	69x90x60	1,0	3-190 500110
HAS 14-15	14,4	1,0	14	13	69x90x60	1,0	3-190 500120
HAS 12-24	24	0,5	12	10	69x90x60	1,0	3-190 500090
HAS 17-24	24	0,7	17	12	69x90x60	1,0	3-190-500260
HAS 14-28	27,6	0,5	14	9	69x90x60	1,0	3-190 500130