

Datasheet HSOS-2

High-Speed Solenoid-Valve Output stage



Highlights:

- Closed-Loop Current Control
- High Voltage Range
- High Output Current
- Various Control Modes
- Robust Industrial Design
- 1 ch. High-Speed output
- 2 ch. Economic outputs

Applications

Valves, used in high-performance applications in terms of speed, frequency and flow need a closed-loop current control to achieve a precise and reproducible valve behavior. Additionally a fast opening and closing of the valve needs a high operating voltage. Our *High-Speed Solenoid-Valve Output Stage* combines an operating voltage of up to 48V with a closed-loop current control of up to 12A per channel.

Technology

The output stage is realized in H-Bridge topology, which enables 1-channel full-bridge or 2-channel half-bridge connections. State of the art MosFET technology guarantees the high output power of over 2 x 500W. The current control loops are realized by hall-effect current sensors and a FPGA based state machine logic. A 32-Bit μ C enables a customizable parametrization due to customers individual needs. The output stage comes within an industrial standard 22.5mm top hat rail housing.

Supply Voltage	13 .. 48V
Pulse length	0.1ms .. ∞
Max. Current	2x 12A
Trigger Inputs	5 .. 24V
Tick Inputs	5 .. 24V

Control Modes

