



POWERBOX iSERVO SVC.50



The **PowerBox iServo SVC.50** has been completely designed according to our specifications. Even the housing design shows that the SVC.50 is something special. Highest quality, maximum durability and, above all, maximum precision were the top priorities during development.

In the SVC version, the servo is designed for voltages ideally at 24V. This reduces the current to a quarter compared to an 8.4V setup! This also reduces losses on the supply line by a quarter, which means significantly less voltage drop and thus consistent positioning force and speed!

FEATURES

- + 24V high-voltage servo for minimizing losses
- + Ultra-precise with high torque
- + Advanced coreless technology
- + High-resolution Hall sensor
- + Large high-performance ball bearings
- + Massive hardened steel gears
- + Supports PWM, P²-BUS, and S.BUS
- + Telemetry data via P²-BUS
- + Extensive parameter programming options
- + Internal capacitors to suppress servo back current
- + Internal connector with locking tab
- + Unique design
- + Developed in the EU, electronics 'Made in the EU'

The **PowerBox iServo SVC.50** has been designed for high starting torque, maximum reset accuracy and rock-solid holding accuracy using coreless technology. In conjunction with a high-precision Hall sensor, a special control algorithm has been developed that is unrivalled in terms of positioning speed. There is no overshoot when reaching the target position with the **PowerBox iServo SVC.50**. The largest possible ball bearings on the 8 mm output shaft and solid hardened steel gears give our high-end servo the necessary durability.

The connection for the patch cable disappears completely into the housing, and a locking tab secures the plug. Cutting cables and soldering extensions is now a thing of the past.

Electronically, the **PowerBox iServo SVC.50** has something unique to offer: for the first time, two large capacitors are built into the servo. This effectively prevents reverse currents and, above all, provides energy for the motor when current peaks have to be absorbed due to the length of the cable.

The software puts the new iServo at the forefront of what is technically feasible. The **PowerBox iServo SVC.50** not only works with PWM standard, but also with the widely used S.BUS. However, the full functionality of the iServo can be utilised with the **P²-BUS**. The **P²-BUS** provides all telemetry data in real time on the transmitter display. In addition, the servo can be fully parameterised via the transmitter.

The setting options are huge: servo travel (±5000°), current limitation, hold characteristics, start-up characteristics and much more.

The settings can be made not only via our PowerBox transmitters, but also with the **PowerBox Mobile Terminal!**

SPECIFICATION

Operating voltage:	12.0 - 26.0V
Torque at 24V:	50 kg*cm
Speed at 24V:	0.11 s
Housing:	Aluminum
Motor:	Coreless motor
Gears:	Hardened steel
Bearings:	2x ball bearings
Output shaft:	8 mm / 25T
Dimensions:	41.8 x 41.5 x 20 mm
Weight:	94 g

DIMENSIONS

