

SPATZH6000 High Frequency Inverter Power Source

The **SPATZH6000** high-frequency inverter power source, with its 20,000 Hz clock frequency, is the all-purpose, cost-effective alternative to all of the transistor-controlled power supplies for micro welding and small component welding. With its rapid reaction speed, the **SPATZH6000** displays high-performance, lasting welding capability, functioning with just as much precision at 100 A as it does at 9,000 A.

Each welding operation is feedback controlled during the procedure. The control process takes place very quickly based on the 20 kHz inverter frequency. Actual values are compared with target values every 0.025 ms. The output power is adapted during the welding process if targets are not being met. Constant Current Control (CCC), Constant Power Control (CPC) and Constant Voltage Control (CVC) can all be used. At the end of each weld, the **SPATZH6000** checks if the actual welding parameters are keeping within the limits set.

The **SPATZH6000**'s timer, power unit and special high-frequency transformer are housed in a compact IP54-protected housing, which weighs a total of 28 kg / 62 lb. The **SPATZBG-02** operating device is used for operating the functions and adjusting the welding parameter settings. The curve characteristics of the process signals and the measured values of the last 10,000 welds can be read by the **SPATZBG-02** at any time.

The specific advantages of the **SPATZH6000** high-frequency inverter, such as its low weight and high output voltage, allow the easy system integration. The high output voltage enables relatively long welding power lines to lead to the welding position.

The **SPATZH6000** high-frequency inverter is deliverable for a mains input voltage range from 3~400 V to 500 V.



Technical Data

Number of programs	63
Welding impulses / program	16
Control modes	CCC, CPC, CVC
Weld parameter monitoring	yes
Stepper function	for CCC, CPC, CVC
Force schedule	yes
Slope up / slope down	yes
Signal inputs	current, voltage, force, penetration
Output for proportional valve	yes
Mains voltage U_1	3~400 V - 500 V, 50/60 Hz
Max. power S_{max}	60 kVA with 400 V
Nominal power S_N	33 kVA with 50 % duty, 400 V
Welding current range I_2	100-9,000 A with 6% duty cycle
Welding voltage U_{2N}	10 V DC
Interfaces	BG-02, RS232, MASDAT
Digital inputs	13
Digital outputs	8
Cooling water	4 l/min at 20 °C 1.1 gal(US)/min at 68 °F
Type of protection	IP54
Dimensions (H x W x D)	380 x 380 x 210 mm 15.0 x 15.0 x 8.3 in
Weight	28 kg / 62 lb
Colour	light grey / RAL7035
Included in delivery	-documentation -BG-02 connecting cable 3 m / 118.1 in -BG-02 connecting cable holder

