

SPARTUS®



ProTIG
325PW AC/DC

MODERN AND EFFICIENT TIG AC/DC WELDER WITH PULSE

■ The SPARTUS® ProTIG 325PW AC/DC is an advanced inverter welder designed for professional use. The machine supports TIG AC/DC and MMA AC/DC welding,

delivering a maximum output of 320A. Powered by a three-phase 400V supply, it ensures efficient and stable operation.

TIG WELDING

Thanks to its modern solutions, the **SPARTUS® ProTIG 325PW AC/DC** gives users the option to choose between HF (High Frequency) arc ignition and Lift start. The machine is also equipped with a **pulsed current function**, making it ideal for precise welding of thin sheets and aluminum.

The welder allows full customization of the welding process through:

- **AC waveform selection:** three options – square, sinusoidal, and triangular – to adjust welding parameters to specific material requirements.
- **Adjustments:** AC balance, AC frequency, pulse frequency, pulse width, and pulse current, ensuring excellent control over the welding process.
- **Slope-up and slope-down current control:** enables optimization of arc dynamics, crucial for complex joints.
- **SingleSPOT and MultiSPOT welding:** options for accurate spot welding, perfect for precision industrial applications.
- **2T/4T modes:** facilitate control and provide comfort for both short and extended welding projects.



MMA WELDING

The SPARTUS® ProTIG 325PW AC/DC not only delivers advanced TIG welding but also supports the MMA (AC/DC) process. This versatile functionality is further enhanced by **Arc Force** and

Hot Start technologies, which automatically adjust arc parameters to significantly improve weld quality while making arc initiation and stability easier under various conditions.

MEMORY CHANNELS

– QUICK ACCESS TO SAVED SETTINGS

The SPARTUS® ProTIG 325PW AC/DC is equipped with an advanced memory system that allows up to 10 different welding configurations to be stored. This feature enables welders to quickly and easily switch between settings tailored to various materials and working environments. As a result, users can significantly speed up their workflow by eliminating the need for constant manual parameter adjustments. The ability to save favorite settings makes the SPARTUS ProTIG 325PW AC/DC not only efficient but also highly intuitive to operate, making it an ideal tool for professionals seeking both precision and productivity.

10 MEMORY CHANNELS





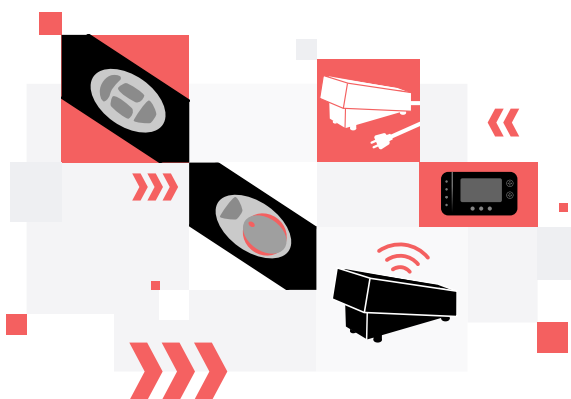
■ MOBILE SET ON A WELDING CART

SPARTUS® ProTIG 325PW AC/DC comes with an integrated cooler mounted on a practical trolley. This convenient and functional configuration not only significantly improves the mobility of the entire set but also increases cooling efficiency, which is crucial during longer welding sessions. Better heat dissipation allows welders to work longer without the risk of equipment overheating, resulting in higher performance and longer device lifespan. Additionally, the mobility of the set allows easy movement between different workstations, which is especially valuable in variable industrial conditions.

■ COOLING

The SPARTUS® ProTIG 325PW AC/DC offers a flexible cooling option, allowing operation with either gas cooling or an integrated cooler. A simple switch on the control panel enables users to adjust the cooling system to current needs and working conditions.

» Version
without cooler
ProTIG 325P AC/DC



■ CONTROL

The SPARTUS® ProTIG 325PW AC/DC also stands out with its flexible control options, ensuring convenience and adaptability in various working environments. The machine supports UP&DOWN torch control and potentiometer control, allowing precise adjustment of welding parameters directly from the torch handle. In addition, a wired foot pedal is available for those seeking maximum comfort. The SPARTUS® ProTIG 325PW AC/DC is also compatible with a wireless remote control, enabling operation from anywhere in the workshop while eliminating cable restrictions and enhancing user mobility. These advanced control options provide welders with not only comfort but also the precision and efficiency needed to achieve the best possible results.

THE UNIT SUPPORTS VARIOUS FORMS OF REMOTE CONTROL:

Control options	UP&DOWN torch control	Torch control – potentiometer	Wired foot control	Wireless foot control	Wireless remote control
PROTIG 325PW AC/DC	✓	✓	✓ SP-FC	✓ SP-FC2	✓ SP-PILOT3



EQUIPMENT

The SPARTUS® ProTIG 325PW AC/DC is available both as a standalone power source with a cooler on a welding cart and in various configurations tailored to the user's needs.

The suggested package includes:

- ProTIG 325P AC/DC
- cooler
- MaxCoolant- cooling liquid
- 4 wheel drive set
- TIG torch SPARTUS SPP 18 4B X 4m
- TIG toolbox (consumable kit)
- 3 m electrode holder
- 3 m work clamp
- gas hose
- user's manual

Thanks to a flexible and innovative customer-oriented approach, SPARTUS® Pro machines can also be configured with different torches and expanded with additional accessories, creating a set perfectly suited to the specifics of the job.

The **SPARTUS® ProTIG 325PW AC/DC** is the perfect choice for professionals seeking a reliable and efficient welding machine that delivers outstanding performance in all conditions, both in production and industrial environments.



PROTIG 325PW AC/DC

TECHNICAL PARAMETER

Input	~3× 400V ± 10% 50 / 60 Hz	SPOT welding	yes
TIG welding current	[AC] 10 – 320A / [DC] 5 – 320A	Arc ignition	LIFT / HF
TIG duty	60%	MMA welding current	10 – 320A
Gas pre flow	0.1 – 2s	Arc Force	yes
Gas post flow	0 – 10s	Hot Start	yes
Up slope	0 – 10s	No-load voltage	10.3V
Down slope	0 – 10s	Current consumpton	AC: TIG 17.4 / MMA 23.2 DC: TIG 18.6 / MMA 24.6
TIG Pulse	yes	Power factor (cosφ)	0.7
Pulse Amps	5 – 320A	Efficiency η	85%
Pulse Width	5 – 95%	Insulation class	H
Pulse frequency	0.5 – 999Hz	Protection class	IP23
AC frequency	50 – 250Hz	Weight	76,8kg
AC wave forms	square sinusoidal triangular	Dimensions	1150 x 600 x 1200mm
AC balance	10 - 99%	Control plug	9SPA - SPARTUS®
2T/4T control	yes		