

SPARTUS® ProTIG 321PW AC/DC



































SPARTUS® ProTIG 321PW AC/DC

Product code:

PROTIG321PWACDC-TOWER

Package equipped: • Source SPARTUS® ProTIG 321P AC/DC • Cooler • Hypercoolant - cooling liquid 5I • 4 wheel drive set • User's manual

SPARTUS® ProTIG 321PW AC/DC - package 20HD 4m

Product code:

PROTIG321PWACDC-PAK-20HD-4



Package equiped: • Device SPARTUS® ProTIG 321PW AC/DC • Cooler • 4 wheel drive set • TIG torch SPARTUS® mini SPP 20HD 4B X 4m • TIG toolbox (consumable kit) • 3m electrode holder • 3m work clamp • Gas hose • User's manual

SPARTUS® ProTIG 321PW AC/DC - package 20HD 8m

Product code:

PROTIG321PWACDC-PAK-20HD-8



Package equiped: • Device SPARTUS® ProTIG 321PW AC/DC • Cooler • 4 wheel drive set • TIG torch SPARTUS® mini SPP 20HD 4B X 8m • TIG toolbox (consumable kit) • 3m electrode holder • 5m work clamp • Gas hose • User's manual

SPARTUS® ProTIG 321PW AC/DC - package 18 8m

Product code:

PROTIG321PWACDC-PAK-18-8



Package equiped: • Device SPARTUS® ProTIG 321PW AC/DC • Cooler • 4 wheel drive set • TIG torch SPARTUS® SPP 18 4B X 8m • TIG toolbox (consumable kit) • 3m electrode holder • 5m work clamp • Gas hose • User's manual

Product description

MODERN AND EFFICIENT TIG AC / DC WITH PULSE

SPARTUS® ProTIG 321PW AC/DC is an inverter welder in a modern edition. It allows TIG AC/DC and MMA AC/DC welding with current up to 320A. The device is powered from a 400V three-phase network.

Thanks to the solutions used, the ProTIG 321PW AC/DC also enables advanced **TIG AC and TIG DC** welding with a choice of arc ignition HF or Lift method. The device is equipped with a pulse welding function, which makes the machine perfect for welding very thin sheets and aluminum.



ProTIG 321PW AC/DC has functions supporting the welding process in TIG method:

- output AC waveforms: square, sinusoidal, triangular,
- 2T/4T Trigger Control,
- AC balance, AC frequency, pulse frequency, pulse width and pulse amps adjustment,
- up slope and down slope adjustment,
- SPOT welding.

ProTIG 321PW AC/DC enables MMA AC and MMA DC welding. The process of joining metals in this method is additionally supported by functions such as:

- Arc Force
- Hot Start.

Additionally the device has 10 memory channels. The user can easily save and recall the most used settings.

The ProTIG 321PW AC/DC model is additionally equipped with an integrated liquid cooler, which ensures efficient cooling of the torch during welding with high currents. The whole is placed on a transport cart with space for a shielding gas cylinder.

Modern design, LCD function panel and the possibility of wireless control in combination with high-class components makes the ProTIG 321PW AC/DC stand out on the market.

The professional device of the SPARTUS® Pro line is perfect suited to the production sector and industry.

CONTROL OPTIONS:







Technical parameters

Welding current TIG [A] 10 - 3 20 Duty cycle TIG [A] 60 Pre-gas [S] 0.1 - 2 Up slope [s] 0 - 10 Pows-gas [S] 0 - 10 Additional features pulse. 2T/AT control , Output remote control, Arc Force, Hot Start, MMA welding Pulse Amps [A] 10 - 320 Base Amps [A] 5 - 95 Pulse frequency [Hz] 5 - 5 AC frequency [Hz] 5 - 5 AC Wave Forms square, sinusoidal, triangular Water cooler Yes AC Wave Forms square, sinusoidal, triangular Water cooler 7 es AC Wave Forms square, sinusoidal, triangular Water cooler 7 es AC Wave Forms 10 - 99 Charactess pilot arc ignition Ut/HF Welding current MMA [A] 10 - 320 Hot Start range [A] 0 - 10 No-load voitage [V] 61 Current consumption [A] 6: TIG 18.7 / MMA 23.5 [DC: TIG 19 / MMA 25.4 Power factor (cosp) 0,70 Efficiency 1 [%] 85	Input	\sim 3× 400V ± 10% 50 / 60 Hz
Pre-gas [s] 0.1 · 2 Up slope [s] 0 · 10 Down slope [s] 0 · 10 Post-gas [s] 0 · 10 Additional features pulse, 2T/4T control , Output remote control, Arc Force, Hot Start, MMA welding Pulse Amps [A] 10 · 320 Base Amps [A] 10 · 320 Pulse Width [%] 5 · 95 Pulse frequency [Hz] 50 · 250 AC Wave Forms square, sinusoidal, triangular Water cooler Yes Tank capacity [L] 5 AC balance [%] 10 · 99 Contactless pilot arc ignition Lift /HF Welding current MMA [A] 10 · 320 Hot Start range [A] 0 · 10 Arc Force range [A] 0 · 10 No-load voltage [V] 61 Current consumption [A] Ac: TiG 18.7 / MMA 23.5 DC: TiG 19 / MMA 25.4 Power factor (cosø) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP215 Weight [kg] 74.5 Dimensions [mm] 1150	Welding current TIG [A]	10 - 320
Up slope [s] 0 - 10 Down slope [s] 0 - 10 Post-gas [s] 0 - 10 Additional features pulse, 2T/4T control, Output remote control, Arc Force, Hot Start, MMA welding Pulse Amps [A] 10 - 320 Base Amps [A] 5 - 95 Pulse Width [%] 5 - 95 Pulse frequency [Hz] 0,5 - 999 AC frequency [Hz] 50 - 250 AC Wave Forms square, sinusoidal, triangular Water cooler Yes Tank capacity [L] 5 AC balance [%] 10 - 99 Contactless pilot arc ignition Lift /HF Welding current MMA [A] 10 - 320 Hot Start range [A] 0 - 10 Arc Force range [A] 0 - 10 No-load voltage [V] 61 Current consumption [A] AC: TiG 18.7 / MMA 23.5 DC: TiG 19 / MMA 25.4 Power factor (cose) 0,70 Efficiency n [%] 85 Insulation class H Protection class H Protection class IP215 Weight [kg] 7	Duty cycle TIG [%]	60
Down slope [s] 0 - 10 Post-gas [s] 0 - 10 Additional features pulse, 2T/I4T control , Output remote control, Arc Force, Hot Start, MMA welding Pulse Amps [A] 10 - 320 Base Amps [A] 10 - 320 Pulse Width [%] 5 - 95 Pulse frequency [Hz] 0,5 - 999 AC Wave Forms square, sinusoidal, triangular Water cooler Yes Tank capacity [L] 5 AC balance [%] 10 - 99 Contactless pilot are ignition Lift/HF Welding current MMA [A] 10 - 320 Host Start range [A] 0 - 10 No-load voltage [V] 61 Current consumption [A] AC: TiG 18.7 / MMA 23.5 DC: TiG 19 / MMA 25.4 Power factor (cosp) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP215 Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Pre-gas [s]	0,1 - 2
Post-gas [s] 0 - 10 Additional features pulse, 2T/4T control , Output remote control, Arc Force, Hot Start, MMA welding Pulse Amps [A] 10 - 320 Base Amps [A] 10 - 320 Pulse Width [%] 5 - 95 Pulse frequency [Hz] 50 - 250 AC Wave Forms square, sinusoidal, triangular Water cooler Yes Tank capacity [L] 5 AC balance [%] 10 - 99 Contactless pilot arc ignition Lift /HF Welding current MMA [A] 10 - 320 Hot Start range [A] 0 - 10 No-load voltage [V] 61 Current consumption [A] AC: TiG 18.7 / MMA 23.5 DC: TiG 19 / MMA 25.4 Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Up slope [s]	0 - 10
Additional features pulse, 2T/4T control , Output remote control, Arc Force, Hot Start, MMA welding Pulse Amps [A] 10 - 320 Base Amps [A] 10 - 320 Pulse Width [%] 5 - 95 Pulse frequency [Hz] 0,5 - 999 AC frequency [Hz] 50 - 250 AC Wave Forms square, sinusoidal, triangular Water cooler Yes Tank capacity [L] 5 AC balance [%] 10 - 99 Contactless pilot arc ignition Lift /HF Welding current MMA [A] 10 - 320 Hot Start range [A] 0 - 10 No-load voltage [V] 61 Current consumption [A] AC: TIG 18.7 / MMA 23.5 DC: TIG 19 / MMA 25.4 Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP215 Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Down slope [s]	0 - 10
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Water cooler Yes Tank capacity [L] 5 AC balance [%] 10 - 99 Contactless pilot arc ignition Lift /HF Welding current MMA [A] 10 - 320 Hot Start range [A] 0 - 10 Arc Force range [A] 0 - 10 No-load voltage [V] 61 Current consumption [A] AC: TIG 18.7 / MMA 23.5 DC: TIG 19 / MMA 25.4 Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	AC frequency [Hz]	50 - 250
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AC balance [%] 10 - 99 Contactless pilot arc ignition Lift /HF Welding current MMA [A] 10 - 320 Hot Start range [A] 0 - 10 Arc Force range [A] 0 - 10 No-load voltage [V] 61 Current consumption [A] AC: TIG 18.7 / MMA 23.5 DC: TIG 19 / MMA 25.4 Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Water cooler	Yes
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Welding current MMA [A] 10 - 320 Hot Start range [A] 0 - 10 Arc Force range [A] 0 - 10 No-load voltage [V] 61 Current consumption [A] AC: TIG 18.7 / MMA 23.5 DC: TIG 19 / MMA 25.4 Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	AC balance [%]	10 - 99
Hot Start range [A] 0 - 10 Arc Force range [A] 0 - 10 No-load voltage [V] 61 Current consumption [A] AC: TIG 18.7 / MMA 23.5 DC: TIG 19 / MMA 25.4 Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Contactless pilot arc ignition	Lift /HF
Arc Force range [A] 0 - 10 No-load voltage [V] 61 Current consumption [A] AC: TIG 18.7 / MMA 23.5 DC: TIG 19 / MMA 25.4 Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Welding current MMA [A]	10 - 320
No-load voltage [V] 61 Current consumption [A] AC: TIG 18.7 / MMA 23.5 DC: TIG 19 / MMA 25.4 Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Hot Start range [A]	0 - 10
Current consumption [A] AC: TIG 18.7 / MMA 23.5 DC: TIG 19 / MMA 25.4 Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Arc Force range [A]	0 - 10
Power factor (cosφ) 0,70 Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	No-load voltage [V]	61
Efficiency η [%] 85 Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 × 600 × 1200	Current consumption [A]	AC: TIG 18.7 / MMA 23.5 DC: TIG 19 / MMA 25.4
Insulation class H Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Power factor $(\cos \varphi)$	0,70
Protection class IP21S Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Efficiency η [%]	85
Weight [kg] 74.5 Dimensions [mm] 1150 x 600 x 1200	Insulation class	Н
Dimensions [mm] 1150 x 600 x 1200	Protection class	IP21S
	Weight [kg]	74.5
Standards CE, EN 60974-1	Dimensions [mm]	1150 x 600 x 1200
	Standards	CE, EN 60974-1

PRODUCT CATEGORIES: WELDING MACHINES, TIG

NW @ is independent subject and not connected to ABITIG@, AMPHENOL@, ASPA@, BESTER@, BINZEL@, CEA@, CEBORA@, ESAB@, EWM@, FALTIG@, FRO@, FRONIUS@, HARRIS@, HYPERTHERM@, KJELLBERG@, LTEC@, LINCOLN@, MAGNUM@, OTC@, SAF@, SHERMAN@, TELWIN@, THERMAL DYNAMICS@, TRAFIMET@, TUCHEL@.

Reference numbers and names belonged to above companies were called due to Property Right Law for buyer's convenience and they are related to code and spare part's description.

The products do not constitute an offer within the meaning of the Civil Code.