SINGLE-PHASE HF FV DC TIG

PROTIG 221 DC FV

5 → 220 A

Ref. 070905 (without optional extras)



The versatile PROTIG 221 DC FV (220 A) is a compact, portable, dual-process appliance for DC TIG and MMA welding processes. This machine is fitted with PFC technology which has numerous advantages; it is very energy efficient and can work reliably with very long power cables, even ones over 100 metres long.

OPTIMISED DC WELDING

• Its secondary regulation system ensures optimal arc stability as well as a constant current in all welding positions.

The DC TIG-welding mode ensures high-quality welding on all ferrous materials, such as steel, stainless steel, copper and its alloys.

DC Pulsed TIG welding up to 2 kHz means users can control the temperature of the weld pool, limit deformations and join sheet metal as thin as 0.3 mm.

Its spot-welding feature can be set anywhere between 0.1 - 25 sec offering fast and precise spot-welding on thin sheet metal.

The machine is equipped with two different ignition types: contactless HF (high-frequency) ignition or Arc-Lift ignition with contact for electro-sensitive environments.

Users can also enjoy three separate trigger managements systems: 2T, 4T and 4T LOG.
 An automatic torch-detection feature means that this device is compatible with trigger,

double-button and potentiometer torches.

MMA WELDING

MMA welding uses basic and rutile electrodes (up to Ø 5 mm).

Pulsed MMA welding enables users to weld in a vertical-up position (ideal for tubing and pipelines, etc.).

The PROTIG 221 DC FV has three integrated welding aids:

- Anti-Stick minimises the risk of the electrode sticking to the workpiece
- Hot Start facilitates ignition and can be quickly adjusted depending on the type of metal
- Arc Force automatically increases the current in difficult welding situations

MAXIMUM PRODUCTIVITY

- Stores up to 10 welding programs per process.
- The advanced menu settings offer optimal welding control.

PFC (Power Factor Correction) technology means that this machine is compatible with power cables up to 100 metres long.

■ FV (Flexible Voltage) technology guarantees a stable electric arc, even in the event of a mains-voltage variation (85 - 265 V) or when powered supply by a battery-based power source.

The current and voltage are displayed during and after the welding process (DMOS/QMOS).

- Remote control connections (manual or pedal)
- Reinforced bodywork and anti-shock pads.
- Compact and easy to move around the work site.
- Protected against over-voltages up to 400 V (PROTEC 400).



Delivered without accessories



Pre-gas / Post-gas
Rise time (UpSlope)
Welding current
Hot / cold current
Pulse frequency
Fading time (DownSlope)

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ACCESSORIES (Optional Extras)

Cooling unit:	Torch	Torches 8 m :					Remote controls:										\square			
WCU 0.5kV 039490		SR26 L 046184			B	RC-FA1 - 4 m 045682				RC-HA1 - 8 m 045675			WELD 910 - 4 m ³ 070967			Sack truck - 10 m ³ 076341				
-			${\rm I}_2$ mma	MMA INTEGRA				TIG			MMA		U _o	- ■ [↓]	сţ,	2				
50/60 Hz	A	A	A	PULSE	AIP	SR		974-1 (40° X% (l2 max)	°C) 100%	EN 6 IA (60%)	60974-1 (40 X% (I2 max)		۷	mm²	cm	kg	IP	Protected & compatible power generator (+/-15%)		
230 V - 1~	16	5 → 220	10 → 200	0.1 → 2 kHz	•	•	165 A	35 %	150 A	135 A	25 %	120 A	78	25/50	23 x 42.5 x 29.5	11	IP 21	7 1.34/	713/4	
110 V - 1~	32	5 → 180	10 → 140		•	•	• 125 A	25 %	110 A	110 A	19 %	90 A	69	35/50				7 kW	7 kVA	
C E - EN 60974-1 Made in FRANCE																				