TITAN 231 DC FV

3 → 230 A

Ref. 075245 (without accessories)



The TITAN 231 DC FV is a professional 230A single-phase TIG power source with IP23 protection, designed to endure demanding operating conditions. Its advanced technology delivers a totally stable arc and superior weld quality, and its high duty cycle is ideal for industrial and robotic applications.

2 WELDING PROCESSES

DC Standard: smooth current welding on most ferrous materials.

DC Pulse, up to 2 kHz: limits the temperature of the weld pool, reduces deformation and allows the assembly of thin sheet materials from 0.3 mm.

Standard MMA: coated, rutile, basic and cellulosic electrodes (up to Ø 5 mm).

MMA Pulse, up to 500 Hz: facilitates welding in a vertical upright direction (tubes/pipelines, etc.)



Supplied without accessories

ENHANCED TIG SETTINGS

- TIG duty cycle 100% at 200 A
- 4 spot modes:
 - Spot / Multi Spot : traditional spot welding before joining thin sheets.
 - Tack / Multi Tack: ultra-precise and oxidation-free tacking reducing the risk of deformation.
- **3 types of ignition:** Lift, HF and Touch.HF (timed high frequency ignition).
- 3 trigger management options: 2T, 4T and 4T LOG
- Pulse TIG waveform settings for arc control and penetration.
- E-Weld mode ensures that the unit delivers the required welding power regardless of the position of the torch in relation to the workpiece (control of welding energy).

MAXIMUM CONNECTIVITY

- Accurately measuring power supply.
- Calibration mode for welding accessories (refines calculation of power usage).
- Ready for robotic integration via an optional kit (037960).
- Storage of up to 50 programs per process for recurring tasks.
- Compatible with slat, dual button, potentiometer and Up & Down torches.
- Full machine updates available via USB stick.
- Remote controls (foot switch or optional manual) connectable without the use of
- Optional cooling unit (070820) with easy and tool-free installation.
- VRD can be activated to lower the no-load output voltage < 35 V.
- «FV» technology maintains a stable arc in case of mains voltage variations (85-265) V), power supplied via a generator, or when using very long power cables.

IDEAL ON SITE

- Suitable for extension cords up to 100m.
- Reinforced construction and anti-shock feet.
- IP23 rating
- Space-saving and easy to move on site.

C € - EN 60974-1

Protected against overvoltage up to 400 V (PROTEC 400).



Dual display user interfa-

N	lain menu	Advance	d menu
	fast adjustment	of parameters	
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- pre-gas / post-gas
- current upslope
- welding current
- downslope time
- hot current - pulse frequency
- cold current balance time
- I start / t start
- I stop / t stop pulse waveforms
- spot time (0>60 sec)
- time between two spots
- (0.1>25 sec)

ACCESSORIES (optional)

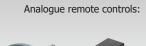


Cooling unit 1000 W 3 L - 14 kg KOOLWELD 1 070820





Trolley 10m3



RC-HA1 - 8 m RC-FA1 - 4 m

Digital remote controls:





Kit NUM-1

	•	- AM	I_{2} tig	I_{2} mma		GRATED NOLOGY	TIG			MMA U _o			U _R	→	1	<u>•</u>					
	50/60 Hz	A	A		TIG DC PULSE	MMA PULSE	EN 60 IA (60%))974-1 (40 X% (I2 max)	0°C) 100%	EN 6 IA (60%)	X% (I2 max)	0°C)	V	VV	mm ²	cm	kg	IP	-	Protected & compatible power generator (+/-15 %)	
	110 V - 1~	32	3 → 140	5 → 120	- 0.1 → 2 kHz 0.	0.4 → 500 Hz	120 A	40 %	100 A	85 A	23 %	70 A	69	31 (VRD)	35/50	49 x 26 x 40 cm	16.5	IP 23	2 m	12.5 kVA	
	230 V - 1~	16	3 → 230	5 → 230			215 A	45 %	200 A	175 A	25 %	145 A	77.5								