

PROTIG 231L DC PFC

Ref. **079335** (with accessories)
Ref. **079328** (without accessories)

The PROTIG 231L DC PFC is a pulse TIG DC welding power source with integrated cooling unit. PFC technology ensures that it can operate from 195 V to 265 V, and still produces a very stable arc, even if a 100m extension lead is being used. When welding with an electrode, the MMA Pulse mode is particularly useful for ascending vertical welds.

2 WELDING PROCESSES

- | | |
|--------|--|
| TIG DC | DC Standard: smooth current welding on most ferrous materials. |
| | DC Pulse, up to 2 kHz: controls the temperature of the weld pool, which limits distortion and means that workpieces as thin as 0.3 mm can be assembled. |
| MMA | Standard MMA: rutile and basic electrodes (up to Ø 5 mm). |
| | MMA Pulse, up to 500 Hz: facilitates welding in a vertical upright position (pipes/pipelines, etc.) |

OPTIMISED TIG SETTINGS

- **2 tacking modes:**
 - **Spot:** adjustable tacking time from 0.1 to 60 seconds on workpieces prior to welding.
 - **Pulse:** adjustable from 0.01 to 60 seconds for thin plates prior to welding.
- **2 types of ignition:** contactless HF or contact LIFT for electro-sensitive environments
- **3 trigger controls:** 2T, 4T and 4T LOG.

MAXIMUM PERFORMANCE

- **Advanced secondary control** for maximum arc stability and consistent current in all positions.
- **Stores up to 50 programs** per process for recurring tasks.
- Advanced menu for enhanced welding control.
- Current and voltage display during and after welding (DMOS/QMOS)
- **Automatic torch detection:** compatible with lamella, double button, potentiometer and Up&Down torches.
- Remote controls (foot pedal or manual options) can be connected without using tools.
- VRD can be activated via an internal switch to reduce open-circuit output voltage to < 35 V.
- Intelligent fan management to reduce power consumption, dust ingress and noise.

IDEAL ON SITE

- Accommodates extension leads up to 100 m long.
- Reinforced body and anti-shock feet.
- Space-saving and portable for on-site use.
- Protected against overvoltage up to 400 V (PROTEC 400).

ACCESSORIES (optional)



TIG torch - 8 m
liquid cooled

SR20L	SR20DB
046153	046146



Set of consumables for
SR20 TIG torch

044685



Trolley 4m³ XL

080034



Coolant liquid (5 L)

062511

Remote control:



RC-HA1 - 8 m

045675



RC-FA1 - 4 m

045682



Integrated cooling unit
400 W - 1.25 L

Supplied with			
079335	✓	✓	✓
079328	without accessories		



Intuitive interface with illuminated display, easy to read from up to 10 metres away.

50/60Hz	A	I ₂ TIG	I ₂ MMA	INTEGRATED TECHNOLOGY		TIG			MMA			U ₀	U _R	mm ²	cm	kg	IP	2 m	1.25 L max	Protected & compatible power generator (+/-15%)
				TIG DC PULSE	MMA PULSE	EN 60974-1 (40°C)	IA (60%)	X% (I ₂ max)	100%	EN 60974-1 (40°C)	IA (60%)									
230 V - 1~	16	10 → 230	10 → 200	0.1 → 2 kHz	0.4 → 500 Hz	160 A	23 %	140 A	135 A	25 %	120 A	80	30 (VRD)	35/50	43.7 x 20 x 46.9	16.7	IP 21	2 m	1.25 L max	8.5 kVA