

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 |