

Designed for the most demanding industry professionals, the **PROGYS 220E FV CEL** blends the latest welding technology with an intuitive user interface. Its innovative ignition process allows the user to vertical-up and vertical-down weld very reliably with all types of electrodes up to Ø 5 mm, including cellulosic and aluminium-coated electrodes.

## FOUR SPECIALIST WELDING MODES

- **MMA:** Weld all rutile, basic, stainless steel, cast iron, aluminium and cellulosic electrodes up to Ø 5 mm.
- **Pulsed MMA:** The ideal mode for vertical-up welding (for pipes and pipelines). Adjustable frequency and cold-current percentage.
- **DC TIG:** Featuring Lift-Arc ignition (with electrodes between Ø 1.6 - 3.2 mm).
- **Pulsed TIG:** Controls the metal's melting temperature and enables the welding of sheet metal from 0.3 mm thick.

## THREE MMA WELDING FEATURES

- Adjustable **Hot Start** : For easier ignition.
- Adjustable **Arc Force** : Automatically increases the current in difficult welding situations.
- **Antisticking** : Reduces the risk of the electrode sticking to the workpiece when welding.

## MAXIMUM PRODUCTIVITY

- Duty cycle of 60% at 175 A (40°C).
- Stores up to ten different programs for each process for perfectly consistent welds.
- Select the type of electrode required for optimal welding (predefined settings).
- Optional remote control.
- PFC (Power Factor Correction) technology means power cables can be up to 100 m long.
- FV technology ensures a stable arc even with a varying mains current (85 - 265 V) or when used with a varying power current supplied from a welding-machine.
- Current and voltage are displayed during and after welding (DMOS/QMOS).
- Optimised cooling system designed for industrial use.

## USER PROTECTION

- A VRD (Voltage Reduction Device) can be turned on to reduce the no-load output voltage < 35 V.
- Lockable keypad prevents operating errors.

## RESILIENT

- Reinforced casing and anti-shock pads on all sides.
- IP23 protection level for outdoor use.
- PROTEC 400 technology protects against overvoltages up to 400 V.

## (Optional) ACCESSORIES



MMA Kit  
200 A - 3 m - 25 mm<sup>2</sup>  
047402



TIG Torch Valve  
SR17V - 4 m  
044401



Manual Remote Control  
RC-HA1 - 8 m (MMA/TIG)  
045675



Remote Control Foot  
RC-FA1 - 4 m (MMA/TIG)  
045682



Remote-control connections

Supplied without accessories

Potentiometer for easy settings adjustments



Lockable keypad

Stores up to 10 programs per welding process

50/60Hz	I <sub>2</sub> MMA A	I <sub>2</sub> TIG A	INTEGRATED TECHNOLOGY								EN 60974-1 (40 °C) X (40 °C)	U <sub>0</sub> V	↕ cm	⚖ kg	IP	Protected & compatible power generator (+/-15%)	
			HS	AF	TIG Lift	TIG Pulse	SR	AD	CEL	ALU							
230 V - 1~	32 16	5 → 220		▪	▪	▪	▪	▪	▪	▪	175 A @ 60 % 145 A @ 60 %	145 A @ 100 % 120 A @ 100 %	77.5	40x 34 x 21	12	IP 23	10 kW 12.5 kVA
110 V - 1~	32	5 → 120	5 → 140								120 A @ 60 %	100 A @ 100 %					