



Discovery 281 AC/DC is an advanced technology **Three Phase** Inverter Power Source for **TIG AC** and **DC** welding.

TIG AC functions are ideal for aluminum, magnesium and related alloys welding, while mild steel, stainless steel and copper can be easily welded in TIG DC.

High definition construction, petrol/chemical plants, food& beverage industry and shipyards are **Discovery 281 AC/DC** main applications.

Weco **Special HF control** provides 100% rapid and precise arc ignition.

TIG AC welding is optimized thanks to:

- **Synergic arc ignition** selection located on the front panel, it modifies the ignition according to electrode diameter.
- **Extra Fusion function** maximizes arc focusing for considerable thin material in TIG AC welding.
- **Mixed AC/DC** increases arc penetration for thick aluminum plates.
- **Pulsed AC** avoids deformations when welding for long time.

Friendly-user LCD interface allows precise parameters setting.

Up to 6mm diameter electrode welding is possible in MMA.

- **50 program memories** available
- **AC Balance** for oxide-cleaning and penetration
- **Adjustable AC frequency** (20÷200Hz) controls welding speed and penetration
- **Square-Wave** allows faster welding speed and better pool control
- **Sine-Wave** provides traditional soft arc
- **Triangular-Wave** reduces heat input
- **Multiple AC Waveforms** available for any TIG AC welding request
- **Remote Controlled** by TIG-torch(UP-DOWN, potentiometer), pedal or RC unit
- **Cooling Unit** available

Processes: TIG AC - TIG DC - MMA

CE Directives: 2002/95/CE, 2004/108/CE, 2006/95/CE

CE Standards: EN 60974-1, EN 60974-10



Power Inverter Inside

- Higher Efficiency
- Lower Energy Demand

	REFERENCE
Discovery 281 AC/DC	001.0152.0000
C.U.04	003.0000.0031
Trolley J	004.0000.0009
VP-01 Tool-box	004.0000.0201
Electrode Holder 35mm ² L=4m	006.0002.0028
Earth Cable 35mm ² L=4m	006.0002.0003
Torch SINTIG 26 AIR L=4m	006.0005.0004
Torch SINTIG 26 RC POT AIR L=4m (*)	006.0005.0008
Torch TIG MULTITIG 26 (UP&DOWN) AIR L=4m	006.0005.0009
Torch TIG SINTIG 18 H ₂ O L=4m	006.0005.0006
Torch TIG SINTIG 18 RC POT H ₂ O L=4m(*)	006.0005.0003
Torch TIG MULTITIG 18 (UP&DOWN) H ₂ O L=4m	006.0005.0010
Remote control RC03	006.0003.0120
Cable RC03 L=5m	022.0002.0166
Cable RC03 L=10m	022.0002.0167
Cable RC03 L=15m	022.0002.0168
Foot Pedal RC02	006.0003.0102
Cable RC02 L=5m	022.0003.0105
Cable RC02 L=10m	022.0003.0106
Cable RC02 L=15m	022.0003.0107
MANOMETER	006.0002.0011
FLOWMETER	006.0002.0005
(*)Adapter A1	022.0002.0068
Suggested composition H₂O:	
Discovery 281 AC/DC + C.U.04 + Trolley J	

TECHNICAL DATA

	3x400Vac ± 15% @ 50-60Hz					
	25A					
	TIG			MMA		
	35%	60%	100%	40%	60%	100%
	280A	230A	200A	250A	210A	180A
	5A – 280A			10A – 250A		
	78V					
	12,7kVA					
	23S					
	670 x 290 x 460mm					
	40,5Kg					