

# 220 AC/DC (ac/dc-tig-mma)

## 220 ac/dc

Portable single-phase welding inverter with PFC (POWER FACTOR CORRECTION) for MMA, TIG DC and TIG AC welding. Thanks to the special device that is capable of the power factor ( $\cos\Phi$ ) between the real power (W) and the apparent power (VA) during test hours, it is possible to optimize current consumption and to guarantee the best performance of this machine.

In addition to the excellent properties in the MMA and TIG DC welding operation, the TIG AC welding was provided with all necessary functions. That is why we can speak of a progressive device which is suitable for professional use.

The 220 AC / DC has in TIG AC mode functions such as:

- Choice of the diameter of the electrode, for the optimization of the start and the guarantee of a flawless arc ignition.
- The "AC EXTRA FUSION" function which makes it possible to distinguish the positive current value from the negative current value in order to realize welding currents with a higher degree of penetration with equality of absorbed energy and greater melt precision.
- The MIX AC / DC function which helps the operator to increase the efficiency and the welding speed.
- The AC PULSATO function for welding with minimal heat emission, as a result of which the base material will deform less during welding.
- Choice of the type of AC wave: rectangular - sinusoidal - triangular or a combination thereof. This function makes it possible to further fine-tune the current type and the properties of the arc to the application to be executed.
- Saving programs. This function is very important for those who use this type of machine to realise series productions.
- Ability to choose the language of the country where the device is used. This allows the welder to gain the best possible insight into the operation of the welding machine.
- Thanks to the LCD display on the front panel, the user interface is very clear, meaning every function of the machine can be adjusted quickly and with great precision.



Technology: Inverter  
Supply: 1-phase  
Type: tig

# Prior Welding



## Prior Welding

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# 220 AC/DC (ac/dc-tig-mma)

Model	DISCOVERY 220AC/DC					
Ambient temperature	40°C					
Grid voltage	1x230V~±15%/50-60Hz					
Grid fuse	16A DELAYED					
Welding method	MMA			TIG		
Duty cycle	40%	60%	100%	35%	60%	100%
Welding amperage	180A	150A	120A	220A	180A	160A
Duty voltage	27,2V	26,0V	24,8V	18,8V	17,2V	16,4V
Maximum intake power	6,2KVA	4,7KVA	3,6KVA	5,4KVA	4,2KVA	3,6KVA
Maximum intake amperage	30,0A	22,3A	16,3A	25,7A	20,2A	16,3A
Absorbed efficient amperage	18,9A	17,2A	16,3A	15,2A	15,6A	16,3A
No-load voltage	80V			12V		
Insulation class	H					
Protection class	IP23S					
Cooling	AF					
Construction norms	EN 60974-1 / EN 60974-10					
Dimensions ( L x D x H )	230x460x325 mm					
Weight	17,5Kg.					



## Accessories:

Welding cable  
Grounding cable  
Tig torch  
Reducer



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