



PROJECT



INVERTER POWER SOURCES FOR ELECTRODE WELDING

PROJECT 1600, 2100, 1650 are DC latest generation 100 kHz inverter power sources, built in an innovative, ergonomic and robust chassis standard equipped with a carrying belt for easy transportation. Their very compact structure, lightness and user friendly feature make them ideal for any professional use with any type of basic and rutile electrodes for maintenance and light fabrication works.

The excellent welding characteristics in MMA and TIG welding with “Lift” mode arc striking, coupled with IP 23 protection class, enable their use in any work environment.



CC

Inverter

DC
+ -

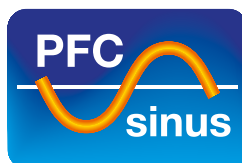


- ▶ Excellent welding characteristics with any type of electrode
- ▶ Low energy consumption and high electrical efficiency
- ▶ 2 available welding processes: MMA - TIG
- ▶ Possibility to work with adequate size power generator sets
- ▶ Shock-proof fibre compound main structure
- ▶ Control panel protected against accidental impact
- ▶ Carrying belt for easy transportation
- ▶ Reduced weight and size and easy-to-carry
- ▶ Automatic Hot Start to improve the arc striking with the most difficult electrodes
- ▶ Built-in Arc Force to automatically select the best welding arc dynamics
- ▶ Electrode Antisticking function

PFC - POWER FACTOR CORRECTION

(Project 1650)

The wave shape of the current drawn from the mains is made sinusoidal by the PFC device with a consequent total lack of harmonic disturbances in the mains and consumption optimization, which enables to utilize the power source at full range on a 16 A fuse. The PFC circuit gives the machine a wider protection against mains voltage fluctuations, by also making it safer whenever being operated by power generator sets.



CONTROL PANEL



1. Welding current electronic adjustment
2. Mains voltage LED
3. Thermostatic protection LED
4. Welding process selector switch
 - MMA: welding of coated electrodes: rutile, basic and stainless steel
 - TIG: by the innovative “Lift” mode system, quick and precise striking is achieved, by minimising any tungsten inclusion and avoiding any incision onto the workpiece



ACCESSORIES

- Fiber carry case with accessories
- Bag for power source and accessories



TECHNICAL DATA		PROJECT		
		1600	2100	1650 
Single phase input 50/60 Hz	V $\begin{matrix} +10\% \\ -10\% \end{matrix}$	230	230	230
Input Power @ I ₂ Max	kVA	9,8	9,9	5,5
Delayed Fuse (I _{eff})	A	16	25	16
Power Factor / cos ϕ		0,67/0,99	0,68/0,99	0,99/0,99
Efficiency Degree		0,82	0,86	0,81
Open circuit voltage	V	60	60	68
Current range	A	5 - 160	5 - 210	5 - 160
Duty cycle at (40°C)	A 100%	90	120	100
	A 60%	105	145	115
	A X%	160 (25%)	210 (30%)	160 (30%)
Standards		EN 60974-1 • EN 60974-10		
				
Protection Class	IP	23 S	23 S	23 S
Dimensions	↗ mm	315	365	400
	→ mm	135	135	135
	↑ mm	230	230	230
Weight	kg	6,3	7,6	8,9

Other voltages available on request

These power sources are built for industrial environment use. EMC (CISPR 11): class A



ISO 9001: 2008