



CONVEX 420 YARD



MULTIVOLTAGE MULTIPROCESS INVERTER POWER SOURCES

Multivoltage CONVEX YARD equipment, thanks to their highly electrical efficient inverter with digital control of all the parameters, can be connected to mains voltage supply ranging from 200 V to 460 V. These multiprocess power sources have been optimized in MMA welding to be suitable with any kind of electrodes, cellulosic included. They also enable TIG welding with “lift” mode and can be utilized in gouging jobs. Combined with HS 5 or SHS feeders, they offer premium welding quality in MIG-MAG.

CONVEX YARD power sources, innovative, robust and easy-to-use, are the ideal solution whenever looking for a modern welding equipment for site or other harsh applications.



WHY TO CHOOSE CONVEX YARD?

- ▶ Multivoltage equipment for 220/230/240 V 3ph 50/60 Hz 380/400/440 V 3ph 50/60 Hz
- ▶ Mains voltage fluctuation automatic compensation within +20% -20%
- ▶ Optimized in MMA welding with all electrodes, cellulosic included
- ▶ Inverter with high electrical efficiency ($\eta=0.86$) and elevated Power Factor (PF=0,95)
- ▶ Excellent welding quality
- ▶ Welding process always under control thanks to the digital adjustment of all parameters
- ▶ Multiprocess equipment with excellent welding characteristics in MIG/MAG, MMA, GOUGING and TIG
- ▶ User friendly and easy-to-use selection and recalling of the parameters and welding programs
- ▶ Ability to store personalized welding parameters up to 99 JOBS
- ▶ Initial and final crater control
- ▶ Monitoring and repeatability of the welding parameters
- ▶ Low energy consumption
- ▶ “Energy Saving” function to operate the power source cooling fan when necessary
- ▶ Digital adjustments of all the welding parameters
- ▶ Digital Voltmeter and Ammeter with Hold Function of the last parameter for both welding voltage and current
- ▶ VRD Voltage Reduction Device for the operator’s maximum safety



- ▶ Metallic main structure with shock-proof fibre compound front frames
- ▶ Control rack protection cover
- ▶ Easy to read and adjust sloping front control panel, highly visible from any direction
- ▶ IP 23 S protection class and dust-proof electronic components thanks to the innovative “tunnel” fan cooling system, allow operation in the toughest work environment

MMA WELDING

- ▶ Adjustable Arc Force to select the best welding arc dynamics
- ▶ Adjustable Hot Start to improve the arc striking with the most difficult electrodes
- ▶ Electrode Antisticking function

TIG WELDING

- ▶ Saldatura TIG in corrente continua mediante innesco tipo "Lift" che permette di ridurre al minimo le inclusioni di tungsteno



MIG WELDING

- ▶ CONVEX 420 YARD equipment offer the possibility of using interconnecting cables up to 50 m in order to control the parameters directly from the feeder

HS5 – SHS WIRE FEEDERS

- ▶ Professional wire feeding mechanism with 4 rolls of large diameter for a precise and constant wire driving
- ▶ Graduated knob to achieve the most correct value of the wire pressure
- ▶ Double groove rolls replaceable without any tool
- ▶ Lodging for wire spools up to 300 mm Ø maximum



SHS



MINI SHS

SHS AND MINI SHS STRONG FEEDERS

These wire feeders, fitted with a robust polypropylene suitcase, are the ideal solution for site jobs and harshest environments. Developed for use with solid and flux cored wires, SHS can lodge spools up to 300 mm Ø, whilst more compact and lighter MINI SHS (8,6 kg only) can only take spools up to 200 mm Ø. Voltmeter/ Ammeter only available on request in a special equipment version.



FACTORY CONFIGURATION



ON SITE CONFIGURATION



TECHNICAL DATA		CONVEX 420 YARD	
Three phase input 50/60 Hz	V $\begin{matrix} +20\% \\ -20\% \end{matrix}$	220/230/240	380/400/440
Input Power @ I ₂ Max	kVA	14,3	17,0
Delayed Fuse (I _{eff})	A	30	20
Power Factor / cos φ		0,95/0,99	0,95/0,99
Efficiency Degree		0,84	0,86
Open circuit voltage	V	72	72
Current range	A	10 - 350	10 - 400
Duty cycle at (40°C)	A 100%	270	330
	A 60%	310	360
	A 40%	350	400
Wires	∅ mm	0,6 - 1,2	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10	
Protection Class	IP	23 S	23 S
Insulation Class		H	H
Dimensions	↗ mm	660	660
	→ mm	290	290
	↑ mm	515	515
Weight	kg	42	42

ACCESSORIES

- CD 14/8 Remote control
- RC 176 Remote control



Technical features might change without notice

Other voltages available on request

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



ISO 9001: 2008