

Technical Data : PC SERIES POWER SUPPLIES



PC Power Source with Laptop



Controller cards with connectors



Remote control

CHARACTERISTICS

- P.C. programming with easy, user friendly Windows terminology
- Practically unlimited applications in tube, pipe and tube sheet welding
- A modular design for simple adaptation to different applications
- Arc voltage control (AVC) and oscillation, control of wire feeder and welding trajectory
- Compatible with all Polysoude welding heads : tube / tube and tube / tube sheet
- Optional modules for mechanized welding duties

USE

- Easy to use due to high performance, intuitive programming

TECHNICAL DATA

- Off-line programming using a P.C. : built-in programs can be modified to specific applications
- Control of the weld cycle : modifications can be made via the remote control during welding
- Storage ...Documentation :
 - Programs can be stored in the non volatile memory of the power source or on 3.5" floppy disks, via a laptop P.C.
 - Parameters can be registered with the help of a real time monitoring system and can be printed on any P.C. compatible printer
 - The complete cycle data can be stored and printed

APPLICATION SECTORS

- Aeronautics / Aerospace
- Chemical industry / Naval construction
- Energy : boilers, nuclear sites
- Heat exchangers
- Measurement sensors
- Tanks / stainless steel accessories
- Mechanised welding
- Retrofit and upgrading to existing installations

PROCESSES

- Orbital TIG welding
- Hot wire orbital TIG welding
- Mechanized hot wire TIG
- Mechanized Plasma
- MIG / MAG control

ACCESSORIES

- External printer kit
- Multi-axis card for control of external / peripheral devices
- Control card and connections for recorder
- Multi-voltage kit
- Separate water cooling unit (PL or HW/PL)
- 4-channel real time monitor
- Data acquisition system
- Seam tracking

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Technical Data : PC SERIES POWER SUPPLIES

	350 PC	PC Control unit with power source 375 AC / DC	300 PC TR	350 PC TR	600 PC
Type of source	Inverter	Miller Aerowave (inverter)	Transistor	Transistor	Inverter
Current range	5-350 A	5 -375 A	3-300 A	3-350 A	15-600 A
Duty cycle	270 A / 100 % - 350 A / 60 %	235 A / 100 % - 375 A / 40 %	240 A / 100 % - 300 A / 60 %	300 A / 100 % - 350 A / 60 %	465 A / 100 % - 600 A / 60 %
Power	17 Kw	16 Kw	16 Kw	19 Kw	28 Kw
Pulsed upslope	250 A / 1ms	n.c.	250 A / 250 µs	250 A / 250 µs	250 A / 1 ms
Hot wire max. current	□	□	□	140 A	140 A
Plasma welding	□	□	□	●	●
Quick pulsed frequency (max.)	2 000 Hz	2 000 Hz	10 000 Hz	10 000 Hz	2 000 Hz
Power input	380V/400V/415V/440V 3 phase (±10%) 50/60 Hz	380V/400V/415V* 3 phase (±10%) 50/60 Hz *for other voltage, please contact us	220V/380V/415V or 440V/550V 3 phase (±10%) 50/60 Hz	220V/380V/415V or 440V/550V 3 phase (±10%) 50/60 Hz	400V 3 phase (±10%) 50/60 Hz
Auxiliary axes	-direct / pulsed current -torch movement control -wire feed control -oscillation control -AVC -multi-axe positioners	-AC/DC welding with pulsed current direct -torch movement control -wire feed control -oscillation control -AVC -multi-axe positioners	-direct / pulsed current -torch movement control -wire feed control -oscillation control -AVC -multi-axe positioners	-direct / pulsed current -torch movement control -wire feed control -oscillation control -AVC -multi-axe positioners	-direct / pulsed current -torch movement control -wire feed control -oscillation control -AVC -multi-axe positioners
Gas control (with programmable mass flowmeters / synchronization with current / security valve)	-shielding gas -bi-gas -backing gas -trailing gas	-shielding gas -bi-gas -backing gas -trailing gas	-shielding gas -bi-gas -backing gas -trailing gas	-shielding gas -bi-gas -backing gas -trailing gas	-shielding gas -bi-gas -backing gas -trailing gas
No. of programs in memory	100	100	100	100	100
Programming storage	3.5" floppy disk	3.5" floppy disk	3.5" floppy disk	3.5" floppy disk	3.5" floppy disk
Program listing	Separate printer	Separate printer	Separate printer	Separate printer	Separate printer
Real time monitoring system	o	n.c.	o	o	o
Size L x W x H (mm)	1270 x 745 x 1370	n.c.	1270 x 745 x 1370	1270 x 745 x 1680	1270 x 745 x 1370
Weight	250 kg	n.c.	330 kg	400 kg	400 kg
Standard	EN 50199 - EN 60974-1	EN 50199 - EN 60974-1	EN 50199 - EN 60974-1	EN 50199 - EN 60974-1	EN 50199 - EN 60974-1
Cooling	Integrated	Integrated	Integrated	Integrated or separate	Separate
Specific functions		AC/DC : frequency 40 to 400 Hz			

- standard
- o option
- not available

Standard TIG power sources delivered with: portable P.C., remote control, control of torch rotation and wire feeder, programmable mass flowmeter for gas with flow safety valve, integrated torch cooling system (excepted for 600 PC), ammeter-voltmeter
Hot wire TIG Power Sources delivered with : multi-axis card for the control of wire warming, integrated hot wire source 140 A (100%)