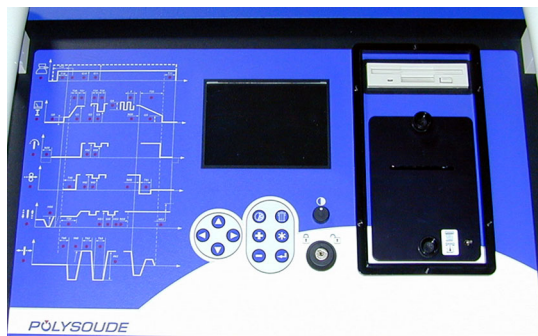


## PS 406 POWER SOURCE



*Ideal for use on site  
or in workshop*



*Operating panel with  
integrated printer*



*Remote control with 6 axes*

### CHARACTERISTICS

- Inverter based power source technology
- Integrated arc voltage height control and weaving motions
- Large capacity memory, over 150 programs (by integrated PC)
- Data acquisition of actual parameters, printout via integrated printer or via an optional external data acquisition system from Polysoude
- Possibility of connecting a separate printer
- Storage of programs by internal non volatile memory and/or by 3.5" disk
- Serial Interface for data exchange with laptop
- Programmable gas (mass flowmeter) with flow safety valve
- Integrated closed water cooling system

### USE

User friendly due to high performance, intuitive programming

### TECHNICAL DATA

- Current ranges: 5 - 400 A
- Duty cycle: 400 A / 40 % -300 A / 100 %
- Welding parameters displayed via built in (5,7") LCD screen and remote control operator pendant:
  - welding current
  - arc voltage
  - modified parameters
  - torch position in degrees (impulses of movements)
  - the welding cycle time remaining
- Remote control pendant with:
  - liquid crystal display screen
  - program selection
  - control of cycle start and cycle stop
  - emergency stop
  - manual movement control: torch and wire feeder
  - real time modification of parameters with cursors Delta +\_
  - gas and water flow control / security
  - manual slope down

### APPLICATION SECTORS

- Chemical industry, pipeline
- Heating and ventilation: production of heat exchangers
- Aeronautics / Aerospace

### ACCESSORIES

- External printer kit
- Gas hose
- Pressure regulator and flowmeter Argon and Argon/Hydrogen
- Manual torch 8 m with quick connectors and accessories (Option)
- Data acquisition system from Polysoude (Option)

## Technical Data :

<b>Power input</b>	Three phase + ground 400V ± 10 % 50 or 60 Hz Option: multi voltage from 200 V to 480 V
<b>Main fuses</b>	Depending on voltage
<b>Open circuit voltage</b>	92 V
<b>Insulation class</b>	F
<b>Protection class</b>	IP 21 IK04
<b>Welding current range</b>	5 - 400 A D.C.
<b>Duty cycle</b>	400 A / 40 % - 360 A / 60 % - 300 A / 100 %
<b>Current resolution</b>	1 % when $I \geq 100$ A - 1 A when $I \leq 100$ A
<b>Pulse time</b>	from 10 to 9999 ms
<b>Movement controls</b>	Direct or pulsed current Constant or pulsed command of torch rotation. Constant or pulsed wire feed, wire-retract at the end of the weld Arc Voltage Control Oscillation
<b>Precision on movements</b>	± 1 %
<b>Gas</b>	Programmable mass flowmeter for gas with flow safety valve Second gas (option)
<b>Power source cooling</b>	Forced ventilation
<b>Torch cooling</b>	By water in closed circuit with flow safety valve
<b>Display of real values during cycle</b>	Continuous display: <ul style="list-style-type: none"> <li>. of arc voltage</li> <li>. of welding current</li> <li>. of impulses of movements</li> </ul>
<b>Programs in user memory</b>	> 150 (on hard disk, by integrated PC)
<b>Display screen</b>	5,7"
<b>Display remote control</b>	4 lines of 20 characters, with 8 characters reserved to the designation of programs
<b>Program sectors</b>	24 maximum
<b>Program storage</b>	On hard disk or/and on 3.5" disk – On paper via the printer
<b>Weld report</b>	By integrated or external printer (option)
<b>Auto-diagnostic system</b>	By display of error
<b>Standard application variants</b>	All Polysoude compatibles welding heads and welding carriage direct use of wire feeder POLYFIL P0 motor for mechanised application
<b>Auxiliary options</b>	Possibility of connecting a manual TIG torch Standard: possibility of controlling welding heads with tachometer feedback.
<b>Size L x W x H (mm)</b>	1060 x 580 x 1030
<b>Weight</b>	150 kg (195 kg with multi voltage option)
<b>Standard</b>	EN 60974-1 and EN 50199

