

Digital technology, the NEOPULSE 500 G is a pulsed MIG/MAG welding power source with a separate wire feeder. Ultra high performance and designed for the highest performance level using the latest technology, it features +100 synergic curves and exceptional arc quality/performances. Intuitive and highly functional, its digital interface allows you to change welding parameters with ease. Equipped with its NEOFEED-4W reel (optional), this welding power source provides productivity and quality of unmatched welding on all types of alloys.

MULTI-PROCESS WELDING

- **MIG/MAG :**
 - steel and stainless steel wire: Ø 0.6 to 1.6 mm
 - aluminium wire: Ø 0.8 to 1.6 mm
 - CuSi and CuAl wire: Ø 0.8 to 1.2 mm
- **MMA DC / Pulse :** basic, rutile and cellulosic electrodes (up to Ø 6 mm)
- **TIG DC lift / Pulse.**

SMART

- **SYNERGIC mode :** Select the material/gas type and wire diameter, now the NEOPULSE automatically determines the optimal welding conditions and allows you to adjust the settings (wire feed speed, voltage, current, arc length).

ACCURATE

- **Calibration** of welding accessories, to adjust the displayed voltage measurement and the energy calculation.
- **Energy,** display and energy calculation after welding according to EN1011-1, ISO / TR 18491 and QW-409.
- **Portability :** load / save as, JOBS from a USB key as well as the machine configuration.
- **Traceability :** trace / record all welding steps, weld by weld, during industrial manufacturing according to EN ISO 3834.

OPTIMISED MIG/MAG SETTINGS

- **Welding processes :** Manual, Dynamic STD, Pulsed, Modul Arc (variation of hot / cold current)
- **TACK modes :** SPOT and DELAY.
- **Trigger management :** 2T and 4T.
- **Precise control over the welding cycle :** CreepSpeed, Softstart, Hotstart, Upslope, Downslope, Crater Filler, Postgas, etc.

MAXIMUM PRODUCTIVITY

- Intended for heavy and demanding industrial applications:**
- **4 microprocessors** increase the speed of communication and optimize the efficiency of the product.
 - **High productivity** thanks to its high duty cycle (470A @ 60%).
 - **Connectable via a SAM control interface** for use on robot/automaton (optional).
 - **Higher resistance and robustness** of the electronics.
 - **Powerful electronically controlled wire feed motor** (100 W) with 4 active drive rolls.
 - **High arc voltage** for easier ignition and exceptional arc dynamic.

ADVANCED INTUITIVITY

- **New user friendly interface** focused on welders' navigation habits.
- Complete update of the machine and synergies by USB key.
- Cooling unit (ref. 032750) and trolley (ref. 037328) optional.
- Storage of 500 welding programs (can be saved on USB stick).
- **Displays current/voltage** during and after welding (WPS/PQR).
- Choice of the main parameter to display on the screen (wire speed, average welding current, etc.).
- **Internal lighting** of the motorized roll and wire reel.
- **Viewing window** on trapdoor to check the consumption of the filler wire.
- **Intelligent ventilation management** to reduce power consumption, dust extraction and substation noise.

ROBUST AND MOBILE

- Reinforced metal case & non slip rubber pads.
- IP 23 protection rate.
- Interconnection cables (air or water cooled) up to 20m (optional).
- Remote settings of the wire feeder using the 2 optional remote controls (digital or analog).
- 4 rings/brackets for lifting/positioning.



Supplied without accessories



Complete packs

Steel / Stainless steel	Aluminium
062924	062931

NEOPULSE 500 G

Ref. 014503



TECHNICAL DATA

NEOPULSE 500 G			
Power supply voltage	3 x 400 V +/- 15%		
Mains protection (delayed)	32 A		
Duty cycle factor 10 min/40°C EN 60974-1	MIG-MAG	50 %	100 %
	MMA	470 A	440 A
	TIG		430 A
			450 A
Current range MIG-MAG / MMA / TIG	10 - 500 A		
No load voltage	85 V		
Charging voltage	MIG-MAG	14.5 - 39 V	
	MMA	20.4 - 40 V	
	TIG	10.4 - 30 V	
Max. efficiency	%	90 %	
No-load consumption	MIG-MAG TIG	37 W	
	MMA	157 W	
Protection class	IP23		
Dimensions	680 x 300 x 420 mm		
Weight	29 kg		

NEOFEED 4W		
Power supply voltage	U ₁₁ = 48V - 2A	
	U ₁₂ = 24V - 1A	
Duty cycle factor 10 min/40°C EN 60974-1	60 %	500 A
	100 %	460 A
Wire speed	1 - 22 m/min	
Wire feeder motor	4 motor reels	
Roller diameter	37 mm (Type F)	
Wires	∅ Steel	0.6 - 1.6 mm
	∅ Stainless steel	
	∅ Coated wire	0.9 - 2.4 mm
	∅ Aluminium	0.8 - 1.6 mm
	∅ CuSi / CuAl	0.8 - 1.2 mm
Wire reels	weight / min. ∅	5 kg - 200 mm
	weight / max. ∅	18 kg - 300 mm
Protection class	IP23	
Dimensions	630 x 440 x 290 mm	
Weight	19 kg	

ACCESSORIES & CONSUMABLES

 <p>NEOFEED 4W wire feeder 014527</p>	 <p>Cooling unit NEOCOOL 032750</p>	 <p>Trolley T/M 400 037328</p>	 <p>Interconnection cables</p> <table border="1"> <thead> <tr> <th colspan="2">air</th> <th colspan="2">liquid</th> </tr> </thead> <tbody> <tr> <td>5 m</td> <td>70 mm²</td> <td>047587</td> <td>037243</td> </tr> <tr> <td>10 m</td> <td></td> <td>047594</td> <td>047617</td> </tr> <tr> <td>10 m</td> <td></td> <td>047600</td> <td>047624</td> </tr> <tr> <td>15 m</td> <td>95 mm²</td> <td>038349</td> <td>047631</td> </tr> <tr> <td>20 m</td> <td></td> <td>038431</td> <td>038448</td> </tr> <tr> <td></td> <td></td> <td></td> <td>038455</td> </tr> </tbody> </table>	air		liquid		5 m	70 mm ²	047587	037243	10 m		047594	047617	10 m		047600	047624	15 m	95 mm ²	038349	047631	20 m		038431	038448				038455
air		liquid																													
5 m	70 mm ²	047587	037243																												
10 m		047594	047617																												
10 m		047600	047624																												
15 m	95 mm ²	038349	047631																												
20 m		038431	038448																												
			038455																												
 <table border="1"> <thead> <tr> <th colspan="2">Steel / Stainless steel</th> <th>Aluminium</th> </tr> </thead> <tbody> <tr> <td>air</td> <td>liquid</td> <td>liquid</td> </tr> <tr> <td>450 A 4 m</td> <td>500 A 4 m</td> <td>500 A 3 m</td> </tr> <tr> <td>045392</td> <td>041004</td> <td>046160</td> </tr> </tbody> </table>	Steel / Stainless steel		Aluminium	air	liquid	liquid	450 A 4 m	500 A 4 m	500 A 3 m	045392	041004	046160	 <p>Earth cable 600 A - 4 m / 70 mm² 043831</p>	 <p>Electrode holder 600 A - 5 m / 70 mm² 047006</p>	 <p>Cooling liquid 5 l - 062511 10 l - 052246</p>	 <p>Filter kit 063143</p>															
Steel / Stainless steel		Aluminium																													
air	liquid	liquid																													
450 A 4 m	500 A 4 m	500 A 3 m																													
045392	041004	046160																													
 <p>Remote control digital RC-HD2 062122</p>	 <p>Support RC-HD2 for trolley 037779</p>	 <p>Remote control analog RC-HA2 - 10 m 047679</p>	 <p>SAM robotic control interface 062993</p>	 <p>Mini USB keyboard AZERTY - 027725 QWERTY - 027770</p>																											