

## WELDING RECTIFIERS

**Series: PARS-EL Professional Classic**

**Models: PARS-EL 502P, PARS-EL 502C**

- ◆ Suitable for professional and extra heavy duty welding
- ◆ Easy arc striking, stable and spatter free arc
- ◆ Ability MMA & TIG welding(PARS EL 502C,502P) and gouging(PARS EL 502P)
- ◆ Current auto preset
- ◆ Adjustable arc force for different electrodes (cellulosic, basic, rutile, ...)
- ◆ Anti-stick system
- ◆ Service & warranty



### MMA



### MIG/MAG



### PLASMA



### SAW



## WELDING RECTIFIERS

### TYPE PARS-EL PROFESSIONAL, CLASSIC

The Professional Rectifier series with possessing heavy duty power sources for critical welding in workshop and all field's weather conditions. This machine is used in oil & gas industries, refinery, making metallic tanks, cars & ships industries, etc. The PARS-EL series have ability of tuning static characteristic for different electrodes by adjusting Arc force potentiometer. PARS-EL is a three phase electronic controlled machine. This system allows having a stabilized output current, easy striking and easy controlled molten puddle.

### EXCELLENT FEATURES OF MACHINE

- ♦ Continuous regulation of welding current, Adjustment can be made during welding
- ♦ A stable, spatter free arc and easily controlled molten puddle
- ♦ Ability of MMA & TIG(LIFT) welding and gouging with ideal quality and selecting by multi-state switch (Pls. see the table)
- ♦ Digital display of pre-set and real current (PARS EL 502P)
- ♦ Changing electrical characteristic by adjustable "Arc force" for different electrodes (cellulosic, basic, rutile, ...)
- ♦ Constant welding current regardless of cable length, arc voltage and mains voltage fluctuations.
- ♦ Excellent striking capabilities
- ♦ Anti-stick system & Auto detect remote control
- ♦ Indicator for overload protection and protection against short circuit
- ♦ PCB protection against remote cable short circuit
- ♦ Protection against all kinds of external noise
- ♦ Multi turn potentiometer for increasing of adjustment accuracy
- ♦ Protected system of potentiometer against applying over torque
- ♦ Lift arc system in TIG process with excellence as follows:  
High durability of electrode tip, prevent of molten puddle pollution, protection of torch & machine when short circuit in output, Excellent start process of TIG arc
- ♦ High efficiency, high power factor and low mains current
- ♦ Excellent case protection against external agents and etc.

### OPTIONAL

- ♦ Electrode holder with cable
- ♦ Earth clamp with cable
- ♦ Adjustable "Hot Start"

## TECHNICAL DATA

### WELDING OUTPUT

		PARS-EL 502C	PARS-EL 502P
Current Range	A	20-500	
Welding Current at 50% Duty Cycle <sup>1</sup>	A	500	
Welding Current at 100% Duty Cycle (40°C)	A	390	
No. Load Voltage	V	85	
Welding Processes		MMA / TIG (LIFT)	MMA / TIG (LIFT) / Gouging

### MAINS CONNECTION (Three Phase , 50Hz , 400V)2

Fuse	A	D 50	
Primary Current at 100% Duty Cycle	A	33.5	
Installed Power (Max)	KVA	29.5	
No. Load Power	KW	0.78	1
Mains Cable Cross Section(Cu,Nayy)	mm <sup>2</sup>	4 x 6	

### MISCELLANEOUS

Cooling		Fan	
Protection Class (Acc. to IEC529)		IP 21 S	
Insulation Class		F	
Dimension (LxWxH)	mm	860x660x755	860x660x750
Weight	kg	185	187

F: Fast action fuse D: Delayed action fuse

1. Other duty cycles on request 2. Other Voltages / frequencies on request

3. Gaam Electric reserves the rights to change the specifications without notice.

4. Last digit number of the name of machine (for ex 2 in PARS-EL 502P) indicates to the version of it.