



CHAMPTIG 400 AD / 500 AD

400 / 500 Amp capacity AC / DC TIG / Pulsed TIG Welder



Key Attributes

- High Frequency Inverter based technology with constant output current suitable for both TIG (AC & DC) and MMA welding operation
- Welding process, mode selection and parameter adjustment by using keypad and multi function encoder provided on digital front panel
- It can meet the requirement of seam depth, width and ripple, which can prolong the using life of tungsten electrode.
- 400 AD can be offered with suitable capacity Gas cooled TIG Torch or with Water Cooling Unit, Trolley and Water cooled TIG Torch. 500 AD is offered with Water Cooling Unit, Trolley and heavy-duty water cooled TIG Torch.
- The Equipment is provided with following protections:
 - Under Voltage (< 340VAC.), Over Voltage (>470 VAC) and Single Phasing.
 - Over Temperature



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TECHNICAL SPECIFICATIONS

PARAMETER	VALUE		UNIT
	CHAMP TIG 400 AD	CHAMP TIG 500 AD	
SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V +15%, -10%; 3; 50 / 60		VOLTS, AC; NOS; HZ
INPUT POWER @ 415VAC	@ 100% DUTY CYCLE: MMA MODE = 19, TIG MODE = 15; @ 60% DUTY CYCLE MMA MODE = 26, TIG MODE = 20	15 @ 100%, 20 @ 60%, 27 @ 35% DUTY CYCLE - TIG MODE 19 @ 100%, 26 @ 60%, 34 @ 35% DUTY CYCLE - MMA MOD	KVA
EFFICIENCY	UP TO 82		%
POWER FACTOR	0.8 MAX.	0.8 MAX.	λ
OPEN CIRCUIT VOLTAGE @ 415V INPUT SUPPLY	78V DC(+/-5V)-DC MMA, TIG; 78V AC (+/-5V)-AC TIG	78V DC (±5V)-DC MMA,TIG; 78V AC (±5V)-AC TIG	VOLTS
WELDING CURRENT RANGE	MMA MODE 50 - 400, AC / DC TIG MODE 20 - 400	MMA MODE 50 - 500, AC / DC TIG MODE 20 - 500	AMPS
WELDING CURRENT AT 40 DEG C, 10 MINUTE CYCLE	310 @ 100% DUTY CYCLE, 400 @ 60% DUTY CYCLE,	310 @ 100%, 400 @ 60%, 500 @ 35% DUTY CYCLE	AMPS
REMOTE CONTROLLER / FOOT SWITCH CONTROLLER	PROVIDED AS OPTIONAL FOR CURRENT SETTING.		10 METER
COOLING	FORCED AIR		TYPE
CLASS OF INSULATION	H		-
DEGREE OF PROTECTION	IP23(S)		-
DIMENSIONS LENGTH X WIDTH X HEIGHT	780 X 355 X 620	780 X 355 X 620	MM
WEIGHT (APPROX.)	66	66	KG.



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TIG WELDING PARAMETER SPECIFICATIONS			
PARAMETER	VALUE		UNIT
	CHAMP TIG 400 AD	CHAMP TIG 500 AD	
GAS FLOW TIME	PREFLOW 0 – 5, POSTFLOW 0.1 - 20	PREFLOW 0 – 5, POSTFLOW 0.1 - 20	SEC.
INITIAL WELDING CURRENT, BASE CURRENT, PULSE CURRENT, CRATER CURRENT - TIG	10 – 300	20 – 500	AMPS
CURRENT SLOPE TIME	UP SLOPE 0 – 10, DOWN SLOPE 0 - 10	UP SLOPE 0 – 10, DOWN SLOPE 0 - 10	SEC.
PULSE WIDTH	10 - 90% OF PULSE TIME PERIOD	10 - 90% OF PULSE TIME PERIOD (1 SECOND - 2 MILLISECOND)	%
PULSE FREQUENCY	0.5 – 500	1 – 500	HZ
SPOT TIME	1 – 10	1 – 10	SEC.
CLEANING CONTROL	- 40 TO + 40	- 40 TO + 40	-
AC FREQUENCY CONTROL	20 – 100	20 – 50	HZ
AC OFFSET CONTROL	- 50 TO + 30	- 50 TO + 30	%