CHAMPTIG 500 AD







Key Attributes

- ÿ High frequency inverter based technology with constant output current, suitable for both TIG (AC & DC) and MMA welding operation.
- Ÿ Welding process, mode selection and parameter adjustment by using keypad and multi function encoder provided on digital front panel.
- ÿ Meets the requirement of seam depth, width and ripple, prolonging the life of tungsten electrode.
- ÿ 300 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.
- Ÿ The equipment is provided with following protections:
- Under Voltage (< 340 VAC.), Over Voltage (>470 VAC) and Single Phasing.
- Over Temperature.

ADOR WELDING LIMITED





TECHNICAL SPECIFICATIONS

PARAMETERS	VALUE	UNIT
SUPPLY VOLTAGE, PHASE, FREQUENCY	415 V + 15%, - 10%; 3, 50 / 60	VOLTS, AC, NOS., HZ
INPUT POWER @ 415 VAC	DUTY CYCLE - TIG MODE 15 @ 100%, 20 @ 60%, 27 @ 35% DUTY CYCLE - MMA MODE 19 @ 100%, 26 @ 60%, 34 @ 35%	KVA
EFFICIENCY	UP TO 82	%
POWER FACTOR	0.8 MAX.	λ
	78 V DC (± 5 V) - DC MMA, TIG; 78 V AC (± 5 V) - AC TIG	VOLTS
WELDING CURRENT RANGE	MMA MODE 50 - 500, AC / DC TIG MODE 20 - 500	AMPS
WELDING CURRENT @ 40 DEG C, 10 MINUTE CYCLE		AMPS
REMOTE CONTROLLER / FOOT SWITCH CONTROLLER	PROVIDED AS OPTIONAL FOR CURRENT SETTING.	10 METER
COOLING	FORCED AIR	TYPE
CLASS OF INSULATION	Н	-
DEGREE OF PROTECTION	IP 23 (S)	-
DIMENSIONS (L X W X H)	780 X 355 X 620	MM
WEIGHT (APPROX.)	66	KG.

TIG WELDING PARAMETER SPECIFICATIONS

PARAMETERS	VALUE	UNIT
GAS FLOW TIME	PREFLOW 0 – 5, POSTFLOW 0.1 - 20	SEC
INITIAL WELDING CURRENT, BASE CURRENT, PULSE CURRENT, CRATER CURRENT - TIG	20 – 500	А
CURRENT SLOPE TIME	UP SLOPE 0 – 10, DOWN SLOPE 0 - 10	SEC
PULSE WIDTH	10 - 90% OF PULSE TIME PERIOD (1 SECOND - 2 MILISECOND)	%
PULSE FREQUENCY	1 – 500	HZ
SPOT TIME	1 – 10	SEC
CLEANING CONTROL	- 40 TO + 40	%
AC FREQUENCY CONTROL	20 – 50	HZ
AC OFFSET CONTROL	- 50 TO + 30	%