



## CHAMPTIG 300 AD



The World Class Inverter based AC / DC Pulsed / Mixed Pulsed TIG Welding system



### SALIENT FEATURES

- Large input supply voltage range with under/over voltage
- Single phase protection
- Higher efficiency & power factor
- Lower power consumption
- In built spot TIG welding facility, AC/DC as well as mixed TIG Welding facility. In built pulse TIG welding controls with Independent settings of all parameters from front panel. Optionally welding current variation possible by using remote Control (hand held) or foot control regulator
- Cleaning width control in ac TIG welding enables user to adjust Oxide cleaning as well as penetration of weld puddle according to his choice
- Constant current characteristics irrespective of arc length variation
- High efficiency (≈82%)
- Smooth and stable arc with spatter less welding
- Light weight and compact TIG welding system
- Latest PWM inverter technology

### TECHNICAL SPECIFICATIONS

Parameter	Unit	Value	
<b>Input</b>			
Supply Voltage, Phase Frequency :	Volts, AC	415 (+15%-10%) 3 Phase, 50/60 Hz	
Max output Input KVA @ 416 V Supply	KVA	MMA Mode	TIG Mode
@ 100% duty cycle		7	7.5
@ 60% duty cycle		10	11
Power Factor		Upto 0.92	
Efficiency	%	Upto 82	
<b>Output</b>			
Open Circuit Voltage @ 416 V Supply	Volts, DC	75 V DC (+/- 3V)	
Welding Current Range		AC TIG Mode 20-300 DC TIG Mode 10-300	MMA Mode 50-250
Welding Current (40°C 10 minutes cycle)	Amps		
@ 60% duty cycle		TIG Mode 300 Amps	MMA Mode 250 Amps
@ 100% duty cycle		TIG Mode 230 Amps	MMA Mode 195 Amps
<b>General</b>			
Remote Controller	10 Meter	Provide as Optional for Current Settings	
Foot Switch Control	10 Meter	Provide as Optional for Current Settings	

Cont.

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Protections		Over Voltage, Under Voltage, Single Phasing, Over Temperature
Front Panel Functions		MMA TIG Selection Switch
		2T/ 4T / Spot/ Cycle Selection Switch
		DC+/ DC-/ AC Welding Method Selection Switch
		Gas Check Switch
		Pulse/ Normal Mode Selection Switch
		HF On/ HF Off Selection Switch
		Normal/ Foot Selection Switch
		Menu Switch for Selecting All Functions Via Gas Pre Flow, Start Current, Up slope Time, Base Current, Pulse Current, Down Slope Time, Crater Current, Gas Post Flow Time, Cleaning for AC, AC Frequency, AC Offset, Pulse Width/Spot Time, Pulse Frequency, As Per Mode Selection Operation
		Torch Switch Connector
		Foot Switch Connector
		Remote Connector
		Gas Out
		CAMLOCK output Connector
		Mains On 'Green' Color Indication
	Trip 'Red' Color LED for indication Machine is Under Protection Mode	
	Water/Gas Cooled Selection Switch	
	Encoder for Selected Parameter Vaule Increment/Decrement.	
Cooling	Type	Forced Air
Ambient Temperature Rating	°C	40
Class of Insulation	-	H
Degree of Protection	-	IP23
Dimensions L x W x H (Without handle)	mm	650 x 425 x 515
Weight (Approx)	Kg	50

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### TIG Welding Parameter Setting

#### SPECIFICATIONS

Parameter	Unit	Value
Gas Pre Flow Time	Sec	0-5
Start Current	Amp	5-300
Current Unslope Time	Sec	0-10
Base Current	A	5-300
Pulse Current	A	5-300
Pulse Width	%	10-90% of Width of Pulse Current
Pulse Frequency	Hz	0.5 to 500
Current Down Slope Time	Sec	0-10
Crater Current	A	5-300
Gas Post Flow Time	Sec	0.1-20
Spot Time	Sec	1-10
Cleaning Control	%	(-40) - (+40)
AC Frequency Control	Hz	20-100
AC Offset	%	(-50) - (+30)

- **Warranty:** One year from the date of commissioning. ADOR WELDING LIMITED warrants that all new equipment sold from Plant/Area Offices / Authorised Distributors are free from defects in materials and workmanship and will perform in full accordance with applicable specifications.
- In view of continuous development, ADOR WELDING LIMITED reserves the right to modify/change the design and /or the specifications without any prior notice.
- Backed by dedicated customer care package.