

CHAMPTIG 300 AD

Inverter Based AC/DC Mixed Pulsed TIG
Welding System



- Large Input Supply voltage range with under/over voltage, single phase protection
- Higher Efficiency & Power Factor
- Lower Power consumption
- Light Weight and Compact TIG Welding System



WELDERS TO THE NATION SINCE 1951
ADOR WELDING LIMITED

(Formerly Known as Advani-Oerlikon Ltd.)
www.adorwelding.com





Features & Benefits :

- 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 - within +/- 1% irrespective of arc length variation
- Higher Efficiency greater than 80% Power Factor greater than 0.9, Low Power Consumption No load power less than 100W. Saves power bills by 33%

TECHNICAL SPECIFICATIONS					
INPUT	Unit	Value	GENERAL	Unit	Value
Input Supply:			Insulation	Class	F
Voltage	Volt	415 + 10%, - 25%	Cooling	Type	Forced Air
Phase	No.	3	Protection	Class	IP 21 S
Frequency	Hz	50	Protections Provided		
Input KVA: MMA	KVA	11.8	Thermal Overload		Provided
DC TIG	KVA	11.0	Under Voltage		Provided
AC TIG	KVA	12.0	Over Voltage		Provided
			Single Phasing		Provided
OUTPUT			DIMENSIONS		
Open Circuit Voltage	Volt	90	Length	mm	615
Welding Current Range MMA	Amp	20-250	Width	mm	315
DC TIG		10-300	Height	mm	570
AC TIG		25-300	Weight	Kg	50
Max. Conts. Hand Welding			TORCH		TIG 300-4.5
Current @60% Duty MMA	Amp	250	Max. Current Carrying Capacity		
DC TIG	Amp	300	@60% duty Cycle	DC / Amps	300
AC TIG	Amp	300		AC / Amps	300
SPOT / PULSE TIG PARAMETERS			CABLE	Type	Co-Axial
Initial Current	Amp	10-90% of Background Current	CABLE LENGTH	MTR	4.5
Pulse (Peak) Current DC TIG	Amp	10-300	Cooling	Type	Water
AC TIG	Amp	25-300	Suitable for Electrode Dia	mm	1.6, 2.4, 3.2, 4.0
Base (Background Current) DC TIG	Amp	10-300	WATER COOLING UNIT		WCU 30
AC TIG	Amp	25-300	Input Supply:		
Low Pulse Frequency	Hz	0.5 - 15	Voltage	Volts	230
Middle Pulse Frequency	Hz	15 - 500	Phase	No.	1
Pulse Width	%	10-90% of Peak Current	Freq.	Hz	50
Downslope Time	Secs	0.1-5	Water tank Capacity	Ltrs	10
Crater (Final) Current	Amps	10-90% of Background Current	Dimensions		
Cleaning Width	%	10-50%	Length	mm	290
Arc Spot Time	Secs	0.1-5	Width	mm	400
Gas Post flow Time	Secs	2 - 25	Height	mm	380
			Weight	Kg	14
ORDERING INFORMATION:			PRODUCT CODE		
Standard TIG outfit -Champ Tig 300AD			F10.38.003.0051		
Optional Accessories for Torch consumables			Product Code	Value	
Remote Control Regulator :					
Model : RCU-T with 5 Mtr. Interconnection Cable			S17.01.003.0873	1 No.	
Foot Control Regulator :					
Model : FCR-T with 5 Mtr Interconnection Cable			S17.01.003.0874	1 No.	
Pressure Regulator Cum Flow					
Meter for Argon Gas (TIG), Model : PRF-AT			S12.08.001.0007	1 No.	
Set of Tungsten Electrodes : Model : TE 30 Consisting of :			S10.38.021.0002	1 Set	
a) 1.6 DIA x 150 mm Long				1 No	
b) 2.4 DIA x 150 mm Long				1 No	
c) 3.2 DIA x 150 mm Long				1 No	
d) 4.0 DIA x 150 mm Long				1 No	
Set of Welder's Accessories, Model : WAM Consisting of :			S10.37.041.0003	1 Set	
a) Protective Helmet with Glass				1 No	
b) Pair of Hand Gloves				1 Pair	

- **Warranty:** One year from the date of purchase. 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.



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