

CHAMPTIG 163 CHAMPTIG 303 CHAMPTIG 303AD

The new world class inverter based AC/DC TIG welder



- Single / Three phase inverter based, High efficiency and High Power Factor AC/DC TIG Welder
- Advanced inverter technology optimized ARC performance
- Useful for wide variety of material types and thickness
- Full featured TIG controls possible
- HF ignition, current down slope and gas post flow
- Intelligent protection: over/under voltage, over current / temperature



WELDERS TO THE NATION
ADOR WELDING LIMITED

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



CHAMPTIG 163 / CHAMPTIG 303 / CHAMPTIG 303AD

The new world class inverter based AC/DC welder



SALIENT FEATURES

- Latest PWM inverter technology
- IGBT based
- High efficiency (>82%)
- Smooth and stable arc with spatter less welding



CHAMPTIG - 163

CHAMPTIG - 303

CHAMPTIG - 303AD

SPECIFICATIONS

TECHNICAL SPECIFICATIONS	UNIT	CHAMPTIG 163	CHAMPTIG 303	CHAMPTIG 303AD
INPUT				
Input Supply:				
Voltage	Volts.	230 , +15%, -15%	415 , +10%, -10%	415 , +10%, -10%
Phase	No.	1	3	3
Frequency	Hz	50/60	50/60	50/60
Max. Input KVA				
@ 100% duty cycle	KVA	2	6.5	6
@ 60% duty cycle	KVA	3	9	8.5
@ 40% duty cycle	KVA	-	12	-
@ 35% duty cycle	KVA	-	-	11
@ 25% duty cycle	KVA	5	-	-
@ No Load	KVA	0.1	0.2	0.2
OUTPUT				
Open Circuit Voltage	Volts	60 Vdc	81 Vdc	82 Vdc / 100 Vac
Welding Current Range	Amps	5-160	10-315	10-315
Welding Current				
@ 100% duty cycle (10 minute cycle)	Amps	90	200	190
@ 60% duty cycle	Amps	100	250	240
@ 40% duty cycle	Amps	-	315	-
@ 35% duty cycle	Amps	-	-	315
@ 25% duty cycle	Amps	160	-	-
PARAMETERS PULSE TIG				
Start Current upslope time	Sec	-	-	Adjustable Pot (0 to 10)
Duty Ratio	%	-	-	Adjustable Pot (15 to 100)
Pulse Frequency	Hz	-	-	Adjustable Pot (0.5 to 500)
Base Current	Amps	-	-	Adjustable Pot (10 to 315)
Crater current	Amps	-	-	Adjustable Pot (10 to 315)
Clearance effect	-	-	-	(+5) to (-5)
GENERAL				
Start current	%	-	5 to 100	5 to 100
Current down slope control	sec	Adjustable Pot (0 - 10)	Adjustable Pot (0 - 10)	Adjustable Pot (0 - 10)
Pre-Flow	sec	0.1	0.1	0.1
Post-Flow	sec	1 to 10	Adjustable Pot (3 - 10)	Adjustable Pot (3 - 10)
Current / Voltage Display		(Depending on welding current)		
Ingress Protection	-	-	7 - Segment LED Display	7 - Segment LED Display for Current
Cooling				
Insulation	Class	IP21	IP23	IP23
Welding Output Terminals	Type	Forced Air	Forced Air / Water Cooling	Forced Air / Water Cooling
Dimensions	Class	F	F	F
Length	mm	400	550	620
Width	mm	140	240	270
Height	mm	230	370	570
Weight (approx.)	Kg	7.5	20	35
WATER COOLING UNIT				
Input Supply Voltage	Volts	-	-	230V
Phase	-	-	-	1
Frequency	Hz	-	-	50/60
Water Reservoir Capacity	Liters	-	-	8
Flow rate	Ltr/Min	-	-	9
ORDERING INFORMATION				
TIG Outfit	-	F10.38.003.0020	F10.38.003.0024	F10.38.003.0025
Power Source	-	F10.38.003.0030	F10.38.003.0026	F10.38.003.0027
TIG Torch	-	F10.38.003.0031	-	F10.38.003.0028
Water cooling Unit	-	-	-	F10.38.003.0029

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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5/A, Corpora, L. B. S. Marg, Bhandup (West), Mumbai - 400 078. INDIA
Tel: +91 22 6623 9300/35 Fax: +91 22 2596 6562/6062 Email: cmo@adorians.com

