



## CHAMP 300



The world class Inverter based DC Welder



### TYPICAL APPLICATIONS

- Three phase inverter based, high efficiency and high power factor DC Welder
- High frequency IGBT based Rectifier
- Arc force adjustment on panel.
- TIG Welding possible with External HF Unit handling
- Light weight, compact and portable for easy handling
- Auto-selection of Remote control when Remote controller (optional) is plugged into the machine
- Can be equipped with VRD, ELCB, Current and Voltage Dual-display meters as optional features



### SALIENT FEATURES

- IGBT based latest PWM inverter technology
- High efficiency
- High OCV and suitable for all types of electrodes.
- Smooth and stable arc with minimum spatter
- Controls provided for adjustments of Arc force
- TIG operation possible with external HF TIG Control unit.

### PROTECTIONS WITH AUTO RESET

- Input Supply Voltage protections for over and under Voltage
- Over Temperature
- Protection against Single phasing

### SPECIFICATIONS

Technical Specifications	Unit	CHAMP 300
<b>Input</b>		
Input Supply :		
Input Supply Voltage, Phase, Frequency 	V Ac, No., Hz	415 , +15%, -10%, 3, 50 / 60
Input KVA @ 415V Supply 	KVA	0.2 @ No Load, 10.5 @ 100% Duty Cycle, 13.5 @ 60% Duty Cycle, 17 @ 35% Duty Cycle
Input Current @ 415V Supply	I AC	0.24 @ No Load, 14.5 @ 100% Duty Cycle, 18.5 @ 60% Duty Cycle, 23.5 @ 35% Duty Cycle
Power Factor	$\lambda$	0.72 Max.






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Efficiency		%	>82
<b>Output</b>			
Open Circuit Voltage		V DC	88 V DC + / - 5 V
Welding Current Range		A DC	10-300
Welding Current (40°C, 10 Minute Duty Cycle)		A DC	300 @ 35% Duty Cycle, 250 @ 60% Duty Cycle, 200 @ 100% Duty Cycle
Arc Force Control		A DC	0 - 80 A More Than Set Current
<b>General</b>			
Suitable Welding Electrode size		mm Ø	2.5 - 5 mm For E-6013 & E - 7018, 2.5 - 3.2 For E - 6010
Current Display (Set Current & Actual Current)		A	3 Digit -7 Segment Digital Panel Meter
Remote Control (optional)		10 Meter	Provided As Optional For Current Setting.
Front Panel Functions			1) MMA / Tig Mode Selection Switch. 2) Current & Arc Force Adjustment Pot. 3) Mains on 'green' Colour Led Indication 4) Trip - 'red' Colour LED Indication of "Machine Under Protection Mode". 5) Dpm For Display Of Set Current & Actual Current
Protection (Auto Resettable)			
Ingress Protection		Degree	IP23 S
Cooling		Type	Forced Air
Insulation		Class	H
Dimensions (L x W x H)		mm	536 x 200 x 345
Weight (approx.)		Kg	20

- **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.