



## CHAMP MIG 400

HEAVY DUTY INVERTER BASED GMAW WELDING OUTFIT



### INTRODUCTION

CHAMP MIG 400 is an IGBT inverter based welding power source, suitable for GMAW applications. The IGBT Powermodule, high frequency transformer and fast recovery diode are used as key devices for power conversion and transmission to assure better efficiency and performance. The complete system consists of power source, wirefeeder, gascooled torch and inter connecting cables.

### PROTECTION

The equipment is provided with following protections.

- Under Voltage and Over Voltage:** If supply voltage goes lower or higher than set limit, error message is displayed on Display.
- Over Temperature:** If the temperature of the main power elements is more than safety limits, error message is displayed.
- Single Phasing Protection:** If any one of the three phases (R,Y,andB) is absent, welding will stop. Welding current would not be available in this condition.

### SALIENT FEATURES

- Digital Panel for adjusting the welding.
- 25% more Energy efficient than conventional machines.
- Maximum Power factor is 0.95.
- Excellent dynamic response enables superior arc characteristics.
- 2T, 4T operating modes.
- Dynamic Inductance adjustment for better arc control.
- Crater voltage and Crater current adjustment through digital panel.
- Unique feature of Pinch-off pulse to avoid globule formation.
- Automatic "Weld Stop" facility.
- Normal/ Creep feeding selection available on front panel.

### TECHNICAL SPECIFICATIONS

Technical Specifications	Value	Unit
Supply Voltage, Phase, Frequency	415, +15%, -10%; 3; 50 / 60	Volts, Ac; No.; Hz
Input Kva	12.0 @ 100% Duty Cycle, 0.24 @ No Load	Kva
Power Factor	0.93 Max.	λ

Cont.

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The world class Inverter based MIG Welder

### SPECIFICATIONS

Technical Specifications	Value	Unit
Efficiency	87 @ 100% Duty Cycle	%
Open Circuit Voltage 	65 ±5%	Volts, DC
Welding Voltage And Crater Voltage Range	16 -39	Volts, DC
Welding Current Rating	400 @60% Duty Cycle, 310 @100% Duty Cycle	Amps, DC
Welding Current And Crater Current Range	50 - 400	Amps, DC
Front Panel Controls	2 Track, 4 Track, Gas Check, Ocv Check Facility, Potentiometers For Setting Crater Voltage And Current (wire Feed Speed)	
Front Panel Controls	Potentiometers For Setting Main Voltage And Current (wire Feed Speed)	
Cooling	Forced Air	Type
Insulation	H	Class
Compatibility To International Standards	IEC EN 50974-1	General Compatibility
Dimensions (I X W X H) 	700 X 450 X 600	Mm
Weight (approx.)	44	Kg
Wire Feeder	Feedlite 40 Nemr -c (4 Roll)	Model
Weight (without Spool)	16 Kg (approx)	Kg
Dimensions (I X W X H)	563 X 230 X 410	Mm
Suitable For Wire Spool Capacity	15 KG	Kg
Wire Feeder Fitted With Rollers	1.2 / 1.6 For Solid Wire 2 No	Mm
Wire Feeder Motor Voltage	42V DC	Volts DC
Wire Drive Motor.	Permanent Magnet Dc Type	Type
Wire Roll Drive	Four	No
Wire Feed Speed	1.5 TO 18	Meters / Minute
Suitable For Wire Sizes	0.8,1.0,1.2	Mm
Torch (3 Meter)	Hipro 403 (e)	model

- **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.