

# CHAMP MIG 600

The new world class indigenous inverter based GMAW welding outfit



**CHAMP MIG 600**

- Inverter based digitally controlled GMAW outfit
- High efficiency and high power factor – resulting energy saving
- Enhanced Reliability due to SMD technology
- Auto “Weld Stop” when welding torch is taken away from weld job



WELDERS TO THE NATION SINCE 1951  
**ADOR WELDING LIMITED**

(Formerly known as Advani Oerlikon Ltd.)  
[www.adorwelding.com](http://www.adorwelding.com)



### INTRODUCTION

CHAMP MIG 600 is an IGBT inverter based welding power source , suitable for GMAW applications. The IGBT Power module, high frequency transformer and fast recovery diode are used as key device for power conversion and transmission to assure better efficiency and performance.

The complete system consists of power source, wire feeder, water cooled or gas cooled torch, water cooling unit (for water cooled systems) and interconnecting cables.

### DETAILS OF COMPLETE SYSTEM

Sr. No.	Description	CHAMPMIG 600A	CHAMPMIG 600E
01	Power Source	ICVR 600	ICVR 600
02	Wire feeder	FEEDLITE 40 (NEH-RC)	FEEDLITE 40 (NEH RC)
03	Torch	ADOR-MTG 600 E.	ADOR TW 502 (E)

### 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.

### 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, and B) is absent, welding will stop. Welding current would not be available in this condition.

**POWER SOURCE SPECIFICATIONS**

TECHNICAL SPECIFICATIONS	UNIT	ICVR 600
<b>INPUT</b>		
Input Supply:		
Voltage 	Volt	415 V +15 %, -10 %
Phase	No	3 Ø
Frequency	Hz	50 / 60
Max. Input KVA		
@ 100% duty cycle 	KVA	21.5
@ No load	KVA	0.31
<b>OUTPUT</b>		
Open Circuit Voltage 	Volts+/-5%	65
Welding Current Range 	Amp	65-600
@ 60% duty cycle 	Amp	600
@ 100% duty cycle	Amp	465
Welding Voltage Range		
Crater Current Range	Volt	16-45
Crater Voltage Range	Amp	65-600
Mode of operation	Volt	16-45
Remote Control		2 track, 4 track, Gas check, OCV check facility
Power Factor		For setting voltage & current
Efficiency	%	Max 0.94 89% @ 100% duty cycle
<b>GENERAL</b>		
Compatibility to International standard		As per Std. EN60974-1
Wire feed speed	m/min	1.5-18
Suitable welding wire dia	mm	Aluminum 1.2 – 1.6 Steel 0.8,1.0,1.2 & 1.6
Ingress Protection	Class	IP23
Cooling 	Type	Forced Air
Dimensions (approx.) 		
Length	mm	670
Width	mm	450
Height	mm	620
Weight 	Kg	56
Audio Noise Emission	dB	70

## WIRE FEEDER SPECIFICATIONS

TECHNICAL SPECIFICATIONS	Feedlite 40 (NEHR)C
Suitable for wire sizes	0.8,1,1.2,1.6 mm
Wirefeed speed	1.5 to 18 mtr/min
Wire roll drive	Four
Wire drive motor	Permanent Magnet DC type.
Wire feeder Motor voltage	42 V
Wire feeder fitted with rollers	1.2/1.6 for sold wire 2 no
Suitable for Wire Spool capacity	15kg
Dimensions	
Length	563mm
Width	230 mm
Height	410mm
Weight (without spool)	16 kg (Approx)

- **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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