

# CHAMP MULTI 2 x 400 (SSPW) CHAMP MULTI 4 x 400 (SSPW)

Multi Operator welding payload with  
inverter based Multi-process welding outfit



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- Inverter based digitally controlled multi operator welding payload of Self shielded FCAW and MMA welding outfit
- High efficiency and high power factor – resulting energy savings upto 30%
- Suitable to operate with Diesel Generator set at cross country pipeline application and other project sites
- Enhanced Reliability due to SMD technology



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

(Formerly Known as Advani-Oerlikon Ltd.)  
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## INTRODUCTION

CHAMP MULTI 2 X 400(SSPW) and CHAMP MULTI 4 X 400 (SSPW) are IGBT inverter based welding power sources suitable for self shielded FCAW and MMA welding applications. The IGBT Power module, ferrite core and fast recovery diode are used as key devices for power conversion and transmission to assure better efficiency and performance. It is most suitable for manual and Semi Automatic self shielded flux cored arc welding for Pipe welding application.

The complete system consists of 2 or 4 sets of power source, wire feeder, torch and interconnecting cables. By selecting the MMA or FCAW mode through Digital panel, SMAW or Semi Automatic self shielded FCAW process can be selected.

## DETAILS OF COMPLETE SYSTEM

Sr. No.	Description	MODELS	CHAMP MULTI 2 X 400 (SSPW)	CHAMP MULTI 4 X 400 (SSPW)
01	Power Source	ICCCVR 400 (SSPW)	2 Nos	4 Nos
02	Wire feeder	WF MULTI 40 (I) : 4 Roll, Suitable for Self Shielded FCAW 2 mm wire	2 Nos	4 Nos
03	Torch	SUPER SSPW-350: Self Shielded FCAW Torch (Lincoln End Connection), 350A	2 Nos	4 Nos

## SALIENT FEATURES

- Digital Panel for adjusting the welding parameters and selection of Process either SMAW, or Semi Automatic self shielded FCAW.
- 30% more Energy efficient than conventional machines.
- Maximum Power factor up to 0.90
- Excellent dynamic response enables superior arc characteristics.
- 2T, 4T operating modes
- Electronic choke adjustment and Arcforce adjustment for better arc control
- Crater voltage and Crater current adjustment through digital panel.
- Automatic "Weld Stop" facility.

## PROTECTIONS

The equipment is provided with following protections.

- Under Voltage and Over Voltage:** If supply voltage goes lower or higher than set limit, RED coloured TRIP LED will glow on front panel.
- Over Temperature:** If the temperature of the main power elements is more than safety limits, RED coloured TRIP LED will glow on front panel.
- 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 and RED coloured TRIP LED will glow.



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## POWER SOURCE SPECIFICATIONS

TECHNICAL SPECIFICATIONS		UNIT	2 X ICCCVR 400 (SSPW)	4 X ICCCVR 400 (SSPW)
<b>INPUT</b>				
<b>Input Supply:</b>				
Voltage		Volt	415 V +10 %, -10 %	
Phase		No	3 Ø	
Frequency		Hz	50 / 60	
Input KVA @ 100% duty cycle		KVA	13 x 2 (FCAW/MIG Mode) 14 x 2 (MMA Mode)	13 x 4 (FCAW/MIG Mode) 14 x 4 (MMA Mode)
<b>OUTPUT (Per Power source)</b>				
Open Circuit Voltage		Volts+/-5%	55 for FCAW (MIG) Mode 75 for MMA Mode	
Welding Current Range		Amp	40-400 FCAW (MIG) Mode 50-400 for MMA Mode	
Welding Current (40°C 10 minute cycle) @ 60% duty cycle		Amp	400	
@ 100% duty cycle		Amp	310	
Welding Voltage Range		Volt	14-41 For FCAW / MIG Mode	
Crater Current Range		Amp	40-400 For Semi Auto FCAW/MIG Mode	
Crater Voltage Range		Volt	14-41 For Semi Auto FCAW/MIG Mode	
Mode of operation			2 track, 4 track, OCV check facility With Digital display for setting voltage & current	
Remote Control				
Power Factor		Cos (Ø)	Max 0.90	
Efficiency		%	>82	
<b>GENERAL</b>				
Compatibility to International standard			As per Std. EN60974-10 (EMI-EMC standard for Welding Equipment)	
Wire feed speed		m/min	1 -6 in case with WF MULTI 40 (I) wirefeeder	
Suitable welding wire dia		mm	2.0 , 2.4 for Self shielded Flux core wire	
Ingress Protection		Class	IP23	
Cooling		Type	Forced Air	
Mounting			Skid	
Dimensions (approx.)				
Length		mm	900	900
Width		mm	900	900
Height		mm	1060	1820
Weight		Kgs	164	324
Audio Noise Emission		dB	70	
<b>SPECIFICATION</b>		<b>MODEL</b>		
Power source		ICCCVR (SSPW)	SMAW/MIG/FCAW application	

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## WIRE FEEDER SPECIFICATIONS :

TECHNICAL SPECIFICATIONS	UNIT	WF-40 MULTI (I)
Suitable for wire sizes	mm	2.0 Flux cored wire
Wirefeed speed	mtr/min	15 to 50 rpm / 1.0 to 6.0
Wire roll drive	Nos	Four
Wire drive motor	Type	Permanent Magnet DC type.
Wire feeder Motor voltage	Volts	42
Wire feeder fitted with rollers	Type	2 mm knurled type 2 nos.
Suitable for Wire Spool capacity	Kgs	15
Dimensions :		
Length	mm	520
Width	mm	240
Height	mm	360
Weight (without spool)	Kgs	20 (approx.)

## TORCH SPECIFICATIONS :

TECHNICAL SPECIFICATIONS	UNIT	SUPER SSPW-350
Rating	A	350A @ 60% Duty cycle
End Connection to Torch	Type	Lincoln End Connection
Suitable for Wire Ø	mm	1.0 to 2.4 mm Self Shielded Flux cored wires
Torch Length	meter	3

## ORDERING INFORMATION :

PRODUCT	MODEL	PRODUCT CODE
WELDING PAYLOAD WITH 2 OPERATOR	CHAMP MULTI 2 x 400 (SSPW)	F10.37.401.0068
WELDING PAYLOAD WITH 4 OPERATOR	CHAMP MULTI 4 x 400 (SSPW)	F10.37.401.0069
WELDING OUTFIT	CHAMP MULTI 400 (SSPW)	F10.37.401.0044
Power Source	ICCCVR 400 (SSPW)	F10.37.401.0047
Wire eeder	WF-40 MULTI (I)	015.01.001.0808
Torch	SUPER SSPW 350	015.01.002.1007

- **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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