

# CHAMP 135 / CHAMP 165 CHAMP 203 / CHAMP 253

The new world class inverter based DC welders



- Single / Three phase inverter based, High efficiency and High Power Factor DC Welders
- High frequency IGBT based PWM Inverter
- Arc force adjustment on panel
- TIG Welding possible with Lift Arc technique
- Light weight, compact and portable Power Source for easy handling at all work places including project sites
- Power Sources protected against Over Voltage, Under Voltage, Over Current and overheat
- Compatible for usage with power generator supply
- Can be used with extended Input supply cable
- Energy Efficient Inverters; over 30% energy savings compared to conventional Inverters for models Champ 165 and Champ 203



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

(Formerly Known as Advani-Oerlikon Ltd.)

[www.adorwelding.com](http://www.adorwelding.com)



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## SALIENT FEATURES

- Latest PWM inverter technology
- IGBT based
- High efficiency (>82%)
- Smooth and stable arc with minimum spatter
- Hot start feature available as a standard
- TIG welding with lift arc
- Adjustable Arc force control for Champ 253



## SPECIFICATIONS

TECHNICAL SPECIFICATIONS	UNIT	CHAMP 135	CHAMP 165	CHAMP 203	CHAMP 253
<b>INPUT</b>					
Input Supply:					
Voltage	Volts.	240 , +10%, -15%	90-270	90-270	415 , +10%, -10%
Phase	No.	1	1	1	3
Frequency	Hz	50/60	50/60	50/60	50/60
Max. Input KVA @ 100% duty cycle	KVA	3.5	2.8	2.8	7
Power Factor	COSØ	-	0.98	0.98	0.82
Efficiency	%	≥82	≥85	≥85	≥85
<b>OUTPUT</b>					
Open Circuit Voltage	Volts	64 Vdc	72 Vdc	72 Vdc	72 Vdc
Welding Current Range	Amps	10-130	10-160	10-200	10-250
<b>Welding Current</b> (40° C 10 minute cycle)					
@ 25% duty cycle	Amps	-	-	200	-
@ 40% duty cycle	Amps	130	160	-	250
@ 60% duty cycle	Amps	100	-	-	200
@ 100% duty cycle	Amps	80	80	80	160
<b>GENERAL</b>					
Suitable Welding Electrode size	mm Ø	2.5 and 3.2	2.5, 3.2 and 4	2.5, 3.2, 4 and limited use for 5 mm	2.5, 3.2, 4 and 5
Arc force setting	-	-	-	-	Adjustable Pot (0 – 10)
Hot Start setting	-	-	-	-	Adjustable Pot (0 – 10)
Current / Voltage Display	-	-	-	-	7 – Segment LED Display
Ingress Protection	Class	IP21	IP23	IP23	IP23
Cooling	Type	Forced Air	Forced Air	Forced Air	Forced Air
Insulation	Class	F	F	F	F
Welding Output Terminals	-	Cam Lock connections	Cam Lock connections	Cam Lock connections	Cam Lock connections
Dimensions					
Length	mm	371	410	410	490
Width	mm	153	140	140	250
Height	mm	232	230	230	400
Weight (approx.)	Kg	8	7.9	8.0	18.5
<b>ORDERING INFORMATION</b>		<b>PRODUCT CODE</b>	<b>PRODUCT CODE</b>	<b>PRODUCT CODE</b>	<b>PRODUCT CODE</b>
MMA Outfit		F10.34.501.0023	F10.34.501.0022	F10.34.501.0024	F10.34.501.0008
<b>OPTIONAL ACCESSORIES</b>					
TIG Torches Hiprotig - 170-tv-3.8		S17.01.003.9200	S12.06.002.1051	S12.06.002.1051	

- **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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