

# CHAMP 163 / CHAMP 253

The new world class inverter based DC welders



CHAMP 163

CHAMP 253

- 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 for easy handling



WELDERS TO THE NATION  
**ADOR WELDING LIMITED**

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



# CHAMP 163 / CHAMP 253

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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
- Adjustable Arc force control for Champ 253



CHAMP 163

CHAMP 253

## SPECIFICATIONS

| TECHNICAL SPECIFICATIONS          | UNIT   | CHAMP 163  | CHAMP 253               |
|-----------------------------------|--------|--|-------------------------|
| <b>INPUT</b>                      |        |  |                         |
| Input Supply:                     |        |  |                         |
| Voltage                           | Volts. | 230 , +15%, -15%   | 415 , +10%, -15%        |
| Phase                             | No.    | 1  | 3                       |
|                                   | Hz     | 50/60  | 50/60                   |
| Frequency                         |        |  |                         |
| Max. Input KVA                    |        |  |                         |
| @ 100% duty cycle                 | KVA    | 4  | 9                       |
| @ 60% duty cycle                  | KVA    | 5  | 12                      |
| @ 40% duty cycle                  | KVA    | -  | -                       |
| @ 25% duty cycle                  | KVA    | 7  | -                       |
| @ No Load                         | KVA    | 0.12   | 0.20                    |
| <b>OUTPUT</b>                     |        |  |                         |
| Open Circuit Voltage              | Volts  | 60   | 72                      |
| Welding Current Range             | Amps   | 5-160  | 20-250                  |
| Welding Current                   |        |  |                         |
| @ 25% duty cycle(10 minute cycle) | Amps   | 160  | -                       |
| @ 40% duty cycle                  | Amps   | 145  | 250                     |
| @ 60% duty cycle                  | Amps   | 110  | 210                     |
| @ 100% duty cycle                 | Amps   | 90   | 170                     |
| <b>GENERAL</b>                    |        |  |                         |
| Suitable Welding Electrode size   | mm Ø   | 2.5, 3.2 and 4   | 2.5, 3.2 , 4 and 5      |
| Arc force setting                 | -      | -  | Adjustable Pot (0 – 10) |
| Hot Start setting                 | -      | -  | Adjustable Pot (0 – 10) |
| Arc length setting                | -      | -  | -                       |
| Current / Voltage Display         | -      | -  | 7 – Segment LED Display |
| Protections against failure       | Types  | Intelligent protection provided against, over voltage, under voltage, overload and overheat. |                         |
| Ingress Protection                | Class  | IP21   | IP23                    |
| Cooling                           | Type   | Forced Air   | Forced Air              |
| Insulation                        | Class  | F  | F                       |
| Welding Output Terminals          | Type   | Cam Lock connections   | Cam Lock connections    |
| Dimensions                        |        |  |                         |
| Length                            | mm     | 350  | 490                     |
| Width                             | mm     | 170  | 230                     |
| Height                            | mm     | 245  | 370                     |
| Weight (approx.)                  | Kg     | 7.5  | 18                      |
| <b>ORDERING INFORMATION</b>       |        | <b>PRODUCT CODE</b>  | <b>PRODUCT CODE</b>     |
| MMA Outfit                        | -      | F10.34.501.0009  | F10.34.501.0008         |

**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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