

# CIGWELD

AN **ESAB** BRAND

*WeldSkill*

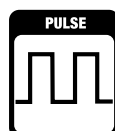
# 205 AC/DC



**HF TIG**

**STICK**

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The CIGWELD WeldSkill 205 AC/DC has taken the same great features and robust power from its predecessor and compacted it down into a smaller, lighter and more portable TIG Inverter that weighs a slight 12kg.

The 205 AC/DC is a 15 Amp 240 volt, digitally controlled, High Frequency AC/DC TIG (GTAW) and Stick (MMAW) inverter. This unit is specifically designed for the budget conscious user who doesn't want to sacrifice on quality or weld results. With its compact casing and IP23S rating the 205 AC/DC is ideal for indoor or outdoor use around the workshop and is easy to carry and manoeuvre into hard to reach places when doing light fabrication and maintenance of mild steels, stainless steels and aluminium.

In TIG mode the unit has all the features required to customise your welding preferences - High Frequency (HF), Up/Down Slope, Pre/Post Flow, 2T/4T Trigger Function, Spot Mode and Gas Purge for AC or DC TIG welding. When welding in AC only, Frequency and Wave Balance can be refined with impressive adjustability and when operating in Pulse Mode the user has full flexibility to adjust Frequency, Width and Peak Current.

In Stick mode the 205 AC/DC features VRD, Anti-Stick and Hot Start and can weld with up to 4mm electrodes.

The CIGWELD WeldSkill 205 AC/DC comes as a complete kit with an 8m Remote Control TIG Torch, Argon Regulator/Flowmeter, 4m Electrode Holder and Work Clamp and a TIG Accessory Kit with tungstens, nozzles, collets etc. to get you up and welding in no time.

**“It's rare to find a machine that impresses me as much as the new 205 AC/DC TIG, and its adjustability makes it superior to anything I have used before.”**



## SPECIFICATIONS

Power Source Weight	12kg
Plant (Package) Weight	22.5kg
Power Source Dimensions	H 324mm x W 176mm x D 430mm
Cooling	Fan Cooled
Welder Type	Inverter Power Source
Standards	AS 60974.1-2006 / IEC 60974-1
Number of Phases	1
Nominal Supply Voltage	240V +/- 15%
Nominal Supply Frequency	50/60Hz
Welding Current Range (STICK Mode)	10 – 160A
Welding Current Range (TIG Mode)	10 - 205A
Effective Input Current (I <sub>1eff</sub> )	15A
Factory Fitted Supply Plug Rating	15A

Maximum Input Current (I <sub>1max</sub> )	34A
Single Phase Generator Requirement	10kVA (at 0.8 power factor) 8kW (at 1.0 power factor)
Output Terminal Type	Dinse™ Style 50
HF TIG Welding Output, 40°C, 10 min.	205A @ 20%, 18.2V 120A @ 60%, 14.8V 95A @ 100%, 13.8V
Open Circuit Voltage	63V
Stick Welding Output, 40°C, 10 min.	160A @ 20%, 26.4V 90A @ 60%, 23.6V 70A @ 100%, 22.8V
Open Circuit Voltage (VRD On)	<35V
Open Circuit Voltage (VRD Off)	63V
Protection Class	IP23S

**“ This easy to operate machine delivers smooth, effortless manoeuvrability and is an absolute pleasure to use every single time. ”**

## FEATURES



**Input Supply**  
240 Volt, 50/60Hz, 15 Amp Supply Lead Fitted to Power Source.



**Current Range**  
Current Range for this Power Source is 10 to 205A. Power Source provides AC and DC welding output.  
(205A in TIG mode only, 160A in Stick Mode).



**HF TIG (GTAW) 205A @ 20%**  
Power Source is fitted with High Frequency in AC TIG modes and High Frequency Start in TIG DC modes.



**STICK (MMAW): 160A @ 20%**  
Power Source is suitable for 2.0mm, 2.5mm, 3.2mm and 4.0mm electrode sizes. Suitable for all electrode types except AWS E6010 Cellulose.



**Pulse**  
Power source fitted with pulse welding capabilities available in AC and DC TIG modes.



**Pulse Frequency**  
Operates in Pulse TIG modes only. It is used to set the pulse frequency in pulse modes. Adjustable Range is 0.2 to 200Hz



**Pulse Width**  
Operates in TIG Pulse modes only. This parameter sets the percentage On time of the pulse frequency for Peak weld current when Pulse is On. Adjustable Range is 10 to 90%



**AC Frequency**  
Operates in AC TIG mode only. It is used to set the frequency for AC weld current. Adjustable Range is 20 to 250Hz.



**Wave Balance**  
Operates in AC TIG mode only. This is used to set the penetration to cleaning action ratio. Adjustable Range is 10% to 65%.



**Pre-Flow/Post-Flow**  
Operates in TIG modes only. It controls gas to the weld zone. Pre-Flow range is 0.1 to 1.0 second. Post-Flow range is 0.5 to 30 seconds.



**Gas Purge**  
Allows Shielding Gas system to be purged and shielding gas flow rates to be set without live welding output. (In TIG Modes).



**Initial Current**  
Operates in 4T TIG modes only. Used to set the start current value for TIG. Adjustable range is 10 to 205A.



**Crater Current**  
Operates in 4T TIG modes only. Used to set the finish current value for TIG. Adjustable range is 10 to 205A.



**Up Slope/Down Slope**  
Operates in TIG modes only. Used to set the time for weld current to either ramp up or ramp down. Up Slope adjustable range is 0 to 15 seconds Down Slope Adjustable range is 0 to 25 seconds.



**Peak Current**  
Operates in TIG modes only. It sets the Peak weld current when in Pulse mode.



**Trigger Mode (2T/4T)**  
Trigger Mode control switches between 2T (normal) and 4T (latch mode) in TIG Modes.



**Spot Mode**  
Power source fitted with Spot Welding capability in TIG mode.



**Anti-Stick**  
Helps to prevent the stick electrode from sticking to the work piece.



**Hot Start**  
Improves the arc start characteristics of stick electrodes.



**Standards Compliant Voltage Reduction Device**



**Digital Meter**  
Digital Meter for easy preview and adjusting.



**Compliance**  
Fully compliant to AS 60974.1-2006 and AS 1674.2-2007



**Protection Class**  
Enclosure rated to IP23S  
- Designed for indoor & outdoor use.



**Recommended Generator**  
10 kVA (at 0.8 Power Factor)\*  
\*Refer to operating manual for further information.



**Over Temperature Protection**  
This protection has been fitted to the Power Source.



**3 Year Limited Warranty\***  
\*Refer to operating manual for further details.

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## WeldSkill 205 AC/DC



### PACKAGE CONTENTS

WeldSkill 205AC/DC HF TIG Inverter Power Source

TIG Torch with 8m Lead and Remote Control

TIG Torch Accessory Kit

CutSkill Preset Argon Regulator/Flowmeter

Twistlock Electrode Holder with 4m Lead

Work Clamp with 4m Lead

Shoulder Strap

Operating Manual can be downloaded at [cigweld.com.au/manuals](http://cigweld.com.au/manuals)

### ORDERING INFORMATION

WeldSkill 205AC/DC Inverter Plant Part No: W1008205

#### OPTIONAL ACCESSORIES

TIG Torch with 4m Lead and Remote Control	W4014604
TIG Torch with 8m lead & remote control (supplied as standard)	W4014605
TIG Torch Accessory Kit	BGSAK2
Foot Control with 8m Lead	W4015800
WeldSkill Argon Regulator / Flowmeter, 55LPM, 2 Gauge	210254
CutSkill Preset Argon Regulator / Flowmeter Vertical Inlet	201030
CutSkill Preset Argon Regulator / Flowmeter Side Inlet	201031
Shielding Gas Hose Assembly	W7004913
WeldSkill Welding Leadset 4m, 25mm <sup>2</sup> cable, 50mm <sup>2</sup> dinse, 250A Twistlock Electrode Holder	WS42550
WeldSkill Welding Leadset 5m, 35mm <sup>2</sup> cable, 50mm <sup>2</sup> Dinse, 400A Twistlock Electrode Holder	WS53550
WeldSkill Heavy Duty Welding Gloves	646755
Wire Brush 4 Row Stainless Steel	646365
ProLite Welding Helmet - Space	454332
ProLite Welding Helmet - Claw	454333
ProLite Welding Helmet - Howling Wolf	454342
ProLite Welding Helmet - Redback Spider	454343
WeldSkill Welding Equipment Trolley	W4011501
Heavy Duty Backpack	W4018001
Comweld 316L TIG Rod 1.6mm, 25 Rod Handipack	322054
WeldSkill GP Electrodes 3.2mm (1kg)	WEG1032
WeldSkill GP Electrodes 3.2mm (2.5kg)	WEG2532

### WE RECOMMEND GENUINE CIGWELD PRODUCTS



WELDING  
MACHINES



FILLER  
METALS



WELDING  
EQUIPMENT



GAS  
EQUIPMENT



PLASMA  
EQUIPMENT



SAFETY  
EQUIPMENT

THE BIGGEST RANGE AND THE BEST QUALITY, WITH GUARANTEED PERFORMANCE.



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