

# CIGWELD

AN **ESAB** BRAND

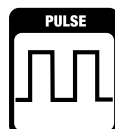
*WeldSkill*

# 180 AC/DC



**TIG  
STICK**

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The CIGWELD WeldSkill 180 AC/DC is a compact and light weight 12kg TIG Inverter that has the added flexibility and portability of a 10 Amp plug to manoeuvre easily around your workshop.

The 180 AC/DC is a 10 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 but needs the portability of the 10A plug.

With its compact casing and IP23S rating the 180 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 180 AC/DC features VRD, Anti-Stick and Hot Start and can weld with up to 3.2mm electrodes.

The CIGWELD WeldSkill 180 AC/DC comes as a complete kit with an 4m 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.



Blue LEDs for improved visibility outdoors.



## SPECIFICATIONS

Power Part Number	W1008195
Power Source Weight	12kg
Plant (Package) Weight	20.5kg
Power Source Dimensions	H 324mm x W 176mm x D 430mm
Cooling	Fan Cooled
Welder Type	Inverter Power Source
Standards	AS 60974.1-2020 / IEC 60974-1
Number of Phases	1
Nominal Supply Voltage	240V +/-15%
Nominal Supply Frequency	50/60Hz
Welding Current Range (STICK Mode)	10 – 130A
Welding Current Range (TIG Mode)	10 - 180A
Factory Fitted Supply Plug Rating	10A
Effective Input Current (I <sub>1eff</sub> )	10A
Maximum Input Current (I <sub>1max</sub> )	26A

Single Phase Generator Requirement	8kVA (at 0.8 power factor) 6.4kW (at 1.0 power factor)
Output Terminal Type	Dinse™ Style 50
<b>TIG (GTAW)</b>	
Welding Output, 40°C, 10 min.	180A @ 15%, 17.2V 90A @ 60%, 13.6V 70A @ 100%, 12.8V
Open Circuit Voltage	63V
<b>STICK (MMAW)</b>	
Welding Output, 40°C, 10 min.	130A @ 15%, 25.2V 65A @ 60%, 22.6V 50A @ 100%, 22V
Open Circuit Voltage (VRD On)	<35V
Open Circuit Voltage (VRD Off)	63V
Protection Class	IP23S



## FEATURES



**PLUG & PLAY** - Suitable for use with any standard 10amp power point!  
240 Volt, 50/60Hz,  
10 Amp Supply Lead Fitted to Power Source

**180A  
AC/DC**

**Current Range**  
Current Range for this Power Source is 10 to 180A. Power Source provides AC and DC welding output. (180A in TIG mode only, 130A in Stick Mode).



**HF TIG (GTAW) 180A @ 15%**  
Power Source is fitted with HF in AC TIG modes and HF Start in TIG DC modes.



**STICK (MMAW): 130A @ 15%**  
Power Source is suitable for 2.0mm, 2.5mm and 3.2mm electrode sizes. Suitable for all electrode types except AWS E6010 Cellulose.



**Pulse**  
Power source fitted with pulse welding capabilities in TIG mode.



**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%.



**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%



**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



**Pre-Flow/Post-Flow**  
Operates in TIG modes only. It controls gas to the weld zone. Pre-Flow range is 0.1 to 3.0 second. Post-Flow range is 0.5 to 30 seconds.



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



**Initial Current**  
Operates in 4T TIG modes only. Used to set the start current value for TIG. Adjustable range is 10 to 180A.



**Crater Current**  
Operates in 4T TIG modes only. Used to set the finish current value for TIG. Adjustable range is 10 to 180A.



**Up Slope/Down Slope**  
Operates in TIG modes only. Is 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.



**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**



**Compliance**  
Fully compliant to AS 60974.1-2020 enclosure rated to IP23S - Designed for indoor & outdoor use.



**Recommended Generator**  
8 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.



# CIGWELD

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## ORDERING INFORMATION

WeldSkill 180AC/DC Inverter Plant Part No: W1008195

### SAFETY ACCESSORIES

ProLite Auto Darkening Helmet Variable Shade 9-13 - Howling Wolf	454342
ProLite Auto Darkening Helmet Variable Shade 9-13 - Redback Spider	454343
ProLite Auto Darkening Helmet Variable Shade 9-13 - Matrix 1.0	454344
ProLite Auto Darkening Welding Variable Shade 9-13 - Space	454332
ProLite Auto Darkening Welding Variable Shade 9-13 - Claw	454333
WeldSkill TIG Welding Gloves - Medium	646768
WeldSkill TIG Welding Gloves - Large	646754
WeldSkill TIG Welding Gloves - XL	646769
WeldSkill Heavy Duty Welding Gloves - Medium	646766
WeldSkill Heavy Duty Welding Gloves - Large	646755
WeldSkill Heavy Duty Welding Gloves - XL	646767
WeldSkill Welding Jacket - Medium	646771
WeldSkill Welding Jacket - Large	646772
WeldSkill Welding Jacket - XL	646773
WeldSkill Welding Jacket - XXL	646774
WeldSkill Welding Curtain - Dark Green, 1.74m x 1.74m	646770
WeldSkill Welding Curtain - Red, 1.74m x 1.74m	646777
Welding Curtain Frame, 1.8m x 1.8m	646776
Welding Blanket, 1.8m x 1.8m	646778

## PACKAGE CONTENTS

WeldSkill 180AC/DC Power Source

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TIG Torch with 4m Lead and Remote Control

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TIG Torch Accessory Kit

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CutSkill Argon Regulator/Flowmeter

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Twistlock Electrode Holder with 4m Lead

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Work Clamp with 4m Lead

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Shoulder Strap

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

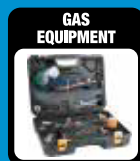
## ORDERING INFORMATION

### OPTIONAL ACCESSORIES

TIG Torch with 4m Lead and Remote Control (supplied as standard)	W4014604
TIG Torch with 8m lead & remote control	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
Wire Brush 4 Row Stainless Steel	646365
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
3T Rare Earth Tungsten 1.6mm x 175mm AC/DC Purple (Pkt of 2)	699859
3T Rare Earth Tungsten 2.4mm x 175mm AC/DC Purple (Pkt of 2)	699860
3T Rare Earth Tungsten 1.6mm x 175mm AC/DC Purple (Pkt of 10)	699861
3T Rare Earth Tungsten 2.4mm x 175mm AC/DC Purple Pkt of 10)	699862
3T Rare Earth Tungsten 3.2mm x 175mm AC/DC Purple (Pkt of 10)	699863
Zirconiated Tungsten 1.6mm x 175mm AC White (Pkt of 2)	699864
Zirconiated Tungsten 2.4mm x 175mm AC White (Pkt of 2)	699865
Zirconiated Tungsten 1.6mm x 175mm AC White (Pkt of 10)	699866
Zirconiated Tungsten 2.4mm x 175mm AC White (Pkt of 10)	699867
Zirconiated Tungsten 3.2mm x 175mm AC White (Pkt of 10)	699868



WE RECOMMEND GENUINE CIGWELD PRODUCTS



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



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[CIGWELD.COM.AU](http://CIGWELD.COM.AU)

In the interest of continuous improvements, CIGWELD Pty Ltd ABN 56 007 226 815 (An ESAB Brand) reserves the right to change specifications or design on any of its products without prior notice.