

Tweco®

ARCMASTER®

*Industrial Portable Welding
Power Sources*



- 220 AC/DC
- 301 AC/DC
- 301 TS

Tweco.com

ARCMASTER[®] *Industrial Portable Welding Power Sources*

The new Tweco ArcMaster family of portable inverters has been completely overhauled and expanded. We have rebuilt our range to ensure products meet your requirements and expectations for outstanding performance, reliability and durability. ArcMaster Inverters offer high performance in a compact inverter-based design that easily meets the needs of the demanding welding professional.

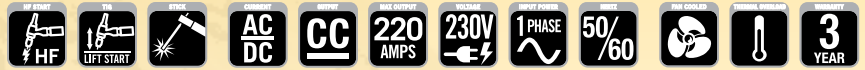
Our new models combine the finest hardware with the latest digital software control systems to provide outstanding quality even on the thinnest materials. Gas and current are precisely controlled, resulting in a very intense and focused arc that gives a slimmer seam and perfect optics, with minimal heat input.

The new ArcMaster family is proof of our commitment to deliver quality equipment that does the job and exceeds expectations! A wealth of features and options make Tweco ArcMaster portable inverters the perfect choice for the serious welding professional.



ARCMaster® 220 AC/DC

AC/DC HF TIG/STICK



The Tweco ArcMaster 220 AC/DC is a full digital control, AC/DC, Stick/ Lift TIG/ HF TIG inverter power supply with a high output and expanded input voltage capabilities for maximum user flexibility. Standard features include: High frequency start, lift TIG start, automatic downslope, pulse, repeat (latch) function, memory function and automatic gas management. This is the ultimate unit designed for precision TIG and Stick welding of all weldable materials. Superior, true square wave output combines with highly developed balance and cleaning features to deliver an unbeatable welding performance with extended tungsten life on aluminium and magnesium alloys without the need for continuous high frequency.



MACHINE SPECIFICATIONS	
Type: Constant Current	AC/DC Stick & TIG Welder
Maximum Output	220A
Welding Amperage Range	Stick: 10 - 170 A, TIG: 3 - 220A
Rated Output:	Stick: 40% @ 170A, TIG: 40% @ 220A
Power Source Dimensions: (H x W x D)	326 x 185 x 483 mm
Power Source Weight	13.4 kg
Warranty	3 Years
PRIMARY POWER	
Primary Voltage	230V
Hertz	50/60 Hz
Phase	1 PH
Designed To	IP23S
Approvals	EN 60974-1

FEATURES & BENEFITS:

- **AC and DC output for aluminum and non-ferrous alloys, stainless, mild steel & chrome molys.**
- **Process Selection between TIG or Stick.**
- **AC Frequency:** Adjustable frequency of the AC square wave when welding on aluminum for optimized set up.
- **Wave Balance:** Adjustable for optimized penetration or cleaning action when welding on aluminum.
- **Pulse:** Changes the weld current from high to low at a specified frequency, reduces heat input on thin material.
- **Preflow & Postflow:** Enables independent control over shielding gas before and after the weld.
- **Initial Current / Upslope / Downslope & Crater modes:** Eliminates blow holes on starting and cracking at the end of the weld.
- **HF Arc Start:** Provides non-contact arc starting that eliminates tungsten or material contamination.
- **Lift TIG Start:** Provides optimized TIG arc starting without the use of high frequency.
- **Fully Integrated VRD**
Voltage reduction device for MMA welding available. (Please contact Victor Technologies if this is required)

ARCMaster® 301 AC/DC

AC/DC HF TIG/STICK



The Tweco ArcMaster 301 AC/DC is a high output, full digital control, AC/DC, Stick/ Lift TIG/ HF TIG inverter power supply with a high output and expanded input voltage capabilities for maximum user flexibility. Standard features include: High frequency start, lift TIG start, automatic downslope, pulse, repeat (latch) function, memory function and automatic gas management. This is the ultimate unit designed for precision TIG and Stick welding of all weldable materials. Superior, true square wave output combines with highly developed balance and cleaning features to deliver an unbeatable welding performance with extended tungsten life on aluminium and magnesium alloys without the need for continuous high frequency.



MACHINE SPECIFICATIONS	
Type: Constant Current	AC/DC Stick & TIG Welder
Maximum Output	300A
Welding Amperage Range	Stick: 10 - 200 A, TIG: 5 - 300A
Rated Output:	Stick: 30% @ 200A, TIG: 30% @ 300A
Power Source Dimensions: (H x W x D)	326 x 185 x 483 mm
Power Source Weight	16.3 kg
Warranty	3 Years
PRIMARY POWER	
Primary Voltage	400V
Hertz	50/60 Hz
Phase	3 PH
Designed To	IP23S
Approvals	EN 60974-1

FEATURES & BENEFITS:

- **Digital Meters:** Voltage and Amperage; Preview and hold capability for easy set up.
- **Trigger Hold:** 4T (Latch) eliminates operator fatigue.
- **Gas Purge:** Ensures gas lines are purged at start of weld.
- **Tiptronics Job Save:** Save up to 100 parameter application settings for quality repeatable welds.
- **Tungsten Size:** Select tungsten size for optimum starting performance.
- **Spot Mode:** Enables timer functions for consistent spot welds.
- **Excellent Portability:** Small size and weight ensures best workspace footprint and job site portability.
- **Overload Protection:** Shuts down the power source to protect the internal electrical components from overheating.
- **Meets IP23S Standards:** Suitable for outdoor use.
- **Fully Integrated VRD**
Voltage reduction device for MMA welding available. (Please contact Victor Technologies if this is required)

ARCMaster® 301TS AC/DC HF TIG/STICK



The Tweco ArcMaster 301 TS is a high output, full digital control, DC, Stick/ Lift TIG/ HF TIG inverter power supply with a high output and expanded input voltage capabilities for maximum user flexibility. Standard features include: High frequency start, lift TIG start, automatic downslope, pulse, repeat (latch) function, memory function and automatic gas management. This is a heavy duty DC unit in a compact, efficient and portable inverter design that is ideal for construction, shipbuilding, rental hire and other industrial applications.



MACHINE SPECIFICATIONS	
Type: Constant Current	DC Stick & TIG Welder
Maximum Output	300A
Welding Amperage Range	Stick: 10-200A / TIG: 5-300A
Rated Output:	Stick: 35% @ 200A, TIG: 35% @ 300A
Power Source Dimensions: (H x W x D)	326 x 185 x 483 mm
Power Source Weight	16.3 kg
Warranty	3 Years
PRIMARY POWER	
Primary Voltage	400V
Hertz	50/60 Hz
Phase	3 PH
Designed To	IP23S
Approvals	EN 60974-1



FEATURES & BENEFITS:

- **Digital Meters:** Voltage and Amperage; Preview and hold capability for easy set up.
- **Trigger Hold:** 4T (Latch) eliminates operator fatigue.
- **Gas Purge:** Ensures gas lines are purged at start of weld.
- **Tiptronics Job Save:** Save up to 100 parameter application settings for quality repeatable welds.
- **Tungsten Size:** Select tungsten size for optimum starting performance.
- **Spot Mode:** Enables timer functions for consistent spot welds.
- **Excellent Portability:** Small size and weight ensures best workspace footprint and job site portability.
- **Overload Protection:** Shuts down the power source to protect the internal electrical components from overheating.
- **Meets IP23S Standards:** Suitable for outdoor use.
- **Fully Integrated VRD**
Voltage reduction device for MMA welding available. (Please contact Victor Technologies if this is required)

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Industrial Portable Welding Power Sources

SYSTEM PACKAGES:

PART NUMBER	DESCRIPTION
W1009305	Tweco Arcmaster 220 AC/DC Inverter power supply with manual, primary cable and TIG plug
W1009405	Tweco Arcmaster 301 AC/DC Inverter power supply with manual, primary cable and TIG plug
W1009205	Tweco Arcmaster 301 TS Inverter power supply with manual, primary cable and TIG plug

OPTIONS & ACCESSORIES:

PART NUMBER	DESCRIPTION
10-4016	Remote Foot Control 7.6m lead and plug
10-4014	Remote Hand Pendant with 7.6m lead & plug
10-9811	8 Pin Plug for remote / TIG Torch
W4001302	CU-6 Arcmaster Water-Cooling Unit (301 TS & 301 AC/DC only)
W4001350	Water-Cooling Unit Cable Protector
W4010003	2 Wheel Arcmaster Trolley
7-3580	Torch Coolant, 3.8l
W4013601	26 Style TIG Torch with remote current control and plug, 3m
310.090.011	26 Style TIG Torch with plug, 4m
310.090.012	26 Style TIG Torch with plug, 8m
310.090.013	26 Style TIG Torch with flex neck and plug, 4m
310.090.014	26 Style TIG Torch with flex neck and plug, 8m
311.050.001	18 Style WC TIG Torch with plug, 4m
311.050.002	18 Style WC TIG Torch with plug, 8m
311.050.011	18 Style WC TIG Torch with flex neck and plug, 4m
311.050.012	18 Style WC TIG Torch with flex neck and plug, 8m

