

THERMAL ARC
Professional 

**Compact,
Efficient &
Versatile**



**ArcMaster®
AC/DC Series**



Thermal Arc Professional: when welding is your business

Thermal Arc is on the move! The Thermal Arc family of Arc Welding equipment has been completely overhauled, re-engineered and expanded following extensive research and development activities. We have rebuilt our range to ensure products meet your requirements and expectations for outstanding performance, reliability and durability.

We distinguish ourselves from our competition through superior featured, durable, dependable products and excellence in customer service and technical support.

Our new complete line of portable inverter products is proof of this commitment to deliver quality equipment that does the job and exceeds expectations! A wealth of features and options make Thermal Arc portable inverters the perfect choice for the serious welding professional.

The Thermal Arc ArcMaster AC/DC Range

The Thermal Arc ArcMaster AC/DC range of inverter welding power supplies are fully featured and deliver outstanding arc characteristics thanks to advanced embedded microprocessor technology and digital control.

True square wave output with highly developed balance and cleaning features deliver an unbeatable welding performance with extended tungsten life on aluminum and magnesium alloys without the need for continuous high frequency.

Smart Logic® and Easy Link, multi voltage technology protects and connects to 208/230/460 VAC, in 1 or 3 phase providing maximum flexibility.

Equipped standard is a compliant VRD (voltage reduction device), when activated greatly improves operator safety in the field or workshop. This fully integrated VRD technology all but eliminates the risk of electric shock from the secondary welding circuit.

Leave it to us: you don't have to remember those favorite settings. With Job Save and Load feature you can store exact optimized welding parameters then digitally recall them with perfect repeatability.

Combine all these market leading features into a compact, efficient, portable inverter design with a full range of packaged accessories and you have the ultimate, fully featured professional range for industrial applications.

ArcMaster 185 AC/DC Compact and portable

Machine Specifications

Input Voltage	208/230 VAC, 1 Phase
Input Frequency	50/60 Hz
Output range	5 – 185 amps DC mode TIG 10 – 185 amp AC mode TIG (60Hz cleaning 50%) 5 – 160 amp DC mode STICK 10 – 160 amp AC mode STICK
Rated Output @ Duty Cycle	185A/17.4V @ 30% TIG 160A/27V @ 40% STICK
Max OCV	65
SMAW Electrode Range	3/32" – 7/32" (2.0 – 5.6mm)
GTAW DC Tungsten Range	.040" – 5/32" (1.0 – 4.0mm)
Dimensions (HxWxD)	14.2" x 7.1" x 16.5" (360 x 180 x 420mm)
Weight	37.5 lb (17 kg)

The Thermal Arc ArcMaster 185 AC/DC is a multi voltage, full digital control, AC/DC, Stick/ Lift TIG/ HF TIG inverter power supply. Standard features include: High frequency start, lift TIG start, up/down slope, pulse, repeat (latch) function, spot timer, job Save & Load, VRD and cellulose E6010 compatibility. 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 aluminum and magnesium alloys without the need for continuous high frequency.

Features:

- Fully featured with outstanding TIG welding performance
- E6010 Stick (Cellulose) compatible
- Rapid Pulse output
- Job Save & Load
- Smart Logic® and Easy Link multi voltage 208/230 VAC, single phase
- Embedded microprocessor with digital controls
- Intelligent heat sensing fan operating on demand
- Standards compliant integrated voltage reducing device (VRD)
- Intelligent self diagnostic
- Compact and portable



Part No: 10-3073

* Limited warranty. Refer to warranty schedule.

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ArcMaster 200 AC/DC

Portable with maximum flexibility

Machine Specifications

Input Voltage	208-230/460 VAC, 1 and 3 Phase
Input Frequency	50/60 Hz
Output range	5 – 200 amps DC mode TIG 10 – 200 amp AC mode TIG (60Hz cleaning 50%) 5 – 160 amp DC mode STICK 10 – 160 amp AC mode STICK
Rated Output @ Duty Cycle	200A/18V @ 20% TIG 160A/26V @ 40% STICK
Max OCV	65
SMAW Electrode Range	3/32" – 7/32" (2.4 – 5.6mm)
GTAW DC Tungsten Range	.040" – 5/32" (1.0 – 4.0mm)
Dimensions (HxWxD)	14.2" x 7.1" x 16.5" (360 x 180 x 420mm)
Weight	37.5 lb (17 kg)



The Thermal Arc ArcMaster 200 AC/DC is the same full digital control, AC/DC, Stick/ Lift TIG/ HF TIG inverter power supply as the 200 AC/DC with a higher output and expanded input voltage capabilities for maximum user flexibility. Standard features include: High frequency start, lift TIG start, up/ down slope, pulse, repeat (latch) function, spot timer, job Save & Load, VRD and cellulose E6010 compatibility. 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 aluminum and magnesium alloys without the need for continuous high frequency.

Features:

- Fully featured with outstanding TIG welding performance
- E6010 Stick (Cellulose) compatible
- Rapid Pulse output
- Job Save & Load
- Smart Logic® and Easy Link multi voltage 208/230/460 VAC, single and three phase.
- Embedded microprocessor with digital controls
- Intelligent heat sensing fan operating on demand
- Standards compliant integrated voltage reducing device (VRD)
- Intelligent self diagnostic
- Compact and portable

Part No: 10-3083

* Limited warranty. Refer to warranty schedule.

ArcMaster 300 AC/DC

Powerful and portable with maximum flexibility

Machine Specifications

Input Voltage	208-230/460 VAC, 1 and 3 Phase
Input Frequency	50/60 Hz
Output range	5 – 300 amps DC mode 5 – 300 amp AC mode TIG (60Hz cleaning 50%)
Rated Output @ Duty Cycle	300A/32V @ 25% (1/3 Phase) 250A/30V @ 40% (1/3 Phase)
Max OCV	65
SMAW Electrode Range	3/32" – 7/32" (2.4 – 5.6mm)
GTAW DC Tungsten Range	.040" – 5/32" (1.0 – 4.0mm)
GMAW Wire Diameter Range^	.023" – .045" (0.6 – 1.2mm)
CAG Electrode Range	1/8" – 3/16" (3.2 – 4.7mm)
Dimensions (HxWxD)	16.5" x 8.3" x 17.7" (420 x 210 x 450mm)
Weight	53 lb (24 kg)

The Thermal Arc ArcMaster 300 AC/DC is the top end high out put, multi voltage, full digital control, AC/DC, Stick/Lift TIG/ HF TIG inverter power supply. Standard features include: High frequency start, lift TIG start, up/ down slope, pulse, repeat (latch) function, spot timer, job Save & Load, VRD and cellulose E6010 compatibility. 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 aluminum and magnesium alloys without the need for continuous high frequency.

Features:

- Fully featured with outstanding TIG welding performance
- E6010 Stick (Cellulose) compatible
- Rapid Pulse output
- Job Save & Load
- Smart Logic® and Easy Link multi voltage 208/230/460 VAC, single and three phase
- Embedded microprocessor with digital controls
- Intelligent heat sensing fan operating on demand
- Standards compliant integrated voltage reducing device (VRD)
- Intelligent self diagnostic
- Compact and portable



Part No: 10-3074

* Limited warranty. Refer to warranty schedule. ^Requires Portafeed VS 212 in CC mode.

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Ordering details 185 & 200 ACDC



Product	Part No.	Description
ArcMaster® 185 ACDC	10-3073	Power supply, power cord, 2 x 50mm dinse plugs
	10-3073 A-1	Power supply, power cord, TIG kit, stick kit, regulator, foot control
	10-3073 A-2	Power supply, power cord, TIG torch w/built-in on/off switch, regulator
ArcMaster® 200 ACDC	10-3083	Power supply, power cord, 2 x 50mm dinse plugs
	10-3083 A-1	Power supply, power cord, TIG kit, stick kit, regulator, foot control
	10-3083 A-2	Power supply, power cord, TIG torch w/built-in on/off switch, regulator
Accessories		
Stick Kit	90925A	Work clamp with 15' 2 AWG cable & stick electrode with 15' 2 AWG cable
TIG Kit	W4009105	TIG torch w/built-in rotary control, accessories, cable & T50 dinse plug
	W4009103	TIG torch w/built-in on/off switch, accessories, cable & T50 dinse plug, reg.
Dinse Connector	10-2020	T50mm dinse style male plug
Adaptor	10-4003	8-pin to 14-pin female (6")
Hand Held Pendant	10-4014	Contactor on/off switch, current control, 25' cable, male plug
Foot Control	10-4015	Contactor on/off switch, current control, 15' cable, male plug
	10-4016	Contactor on/off switch, current control, 25' cable, male plug
Extension Cable	10-4017	3' with 8-pin male plug & 8-pin female cable receptacle
	10-4018	15' with 8-pin male plug & 8-pin female cable receptacle
	10-4019	25' with 8-pin male plug & 8-pin female cable receptacle
	10-4020	50' with 8-pin male plug & 8-pin female cable receptacle
	10-4021	75' with 8-pin male plug & 8-pin female cable receptacle
Torch Switch On/Off	10-4006	15' torch mounted with 8-pin male plug
	10-4007	25' torch mounted with 8-pin male plug
Torch Switch On/Off w/current control	10-4008	15' torch mounted with 8-pin male plug - adapts to CK9 torch handle
	10-4009	15' torch mounted with 8-pin male plug - adapts to CK17 torch handle
	10-4010	15' torch mounted with 8-pin male plug - adapts to CK26 torch handle
	10-4011	25' torch mounted with 8-pin male plug - adapts to CK9 torch handle
	10-4012	25' torch mounted with 8-pin male plug - adapts to CK17 torch handle
	10-4013	25' torch mounted with 8-pin male plug - adapts to CK26 torch handle
	600296	Rotary amperage control 5k 15' velcro for TD8
	600297	Rotary amperage control 5k 25' velcro for TD8

For further information on this range contact your Thermal Arc District Manager or refer to our fully detailed Technical Sales Brochures at www.thermalarc.com.

Ordering details 300 ACDC



Product	Part No.	Description
ArcMaster® 300 ACDC	10-3074	Power supply, power cord, 2 x 50mm dinse plugs
	10-3073 A-1	Power supply, power cord, TIG kit, stick kit, regulator, foot control

Accessories



Stick Kit	10-4082A	Work clamp with 25' 1 AWG cable & stick electrode with 25' 1 AWG cable
TIG Kit	10-4081	TIG torch, accessories, regulator, hose, cable & T50 dinse plug
TWECO® TC900 Water Cooler^	4010-1010	TC900-G cooler w/gear pump
	4010-1011	TC900-V cooler w/vane pump



Dinse Connector	10-2020	T50mm dinse style male plug
Hand Held Pendant	10-2005	Contactor on/off switch, current control, 25' cable, male plug
Foot Control	10-2008	Contactor on/off switch, current control, 15' cable, male plug
	10-2007	Contactor on/off switch, current control, 25' cable, male plug



Extension Cable	10-2030	3' with 14-pin male plug & 14-pin female cable receptacle
	10-2031	15' with 14-pin male plug & 14-pin female cable receptacle
	10-2032	25' with 14-pin male plug & 14-pin female cable receptacle
	10-2033	50' with 14-pin male plug & 14-pin female cable receptacle
	10-2034	75' with 14-pin male plug & 14-pin female cable receptacle
Torch Switch On/Off	10-2001	25' torch mounted with 14-pin male plug
Torch Switch On/Off	10-2002	25' torch mounted with 14-pin male plug - adapts to CK9 torch handle
w/current control	10-2003	25' torch mounted with 14-pin male plug - adapts to CK17 torch handle
	10-2004	25' torch mounted with 14-pin male plug - adapts to CK26 torch handle
	600298	RACCV-5-1-TD14 Rotary amperage control 5k 15' velcro for TD14
	600299	RACCV-5-2-TD14 Rotary amperage control 5k 25' velcro for TD14



Running Gear/Cylinder Cart	205199	For welding power source and/or gas cylinders
Rack Systems**	10-4029	4 pack w/electrical
	10-4031	6 pack w/electrical
	10-4033	8 pack w/electrical



Portafeed VS 212*	W3512002	15-100V DC, heavy duty, CC/CV operation, 2 roll wirefeeder
Tweco® Spraymaster 12ft	MS312-3545	Gun assembly with 12ft cable, 350Amp @ 80%, suits .035"-.045" wire
Tweco® Spraymaster 15ft	MS315-3545	Gun assembly with 15ft cable, 350Amp @ 80%, suits .035"-.045" wire
Tweco® Spraymaster 12ft	MS312-116	Gun assembly with 12ft cable, 350Amp @ 80%, suits 1/16" wire
Tweco® Spraymaster 15ft	MS315-116	Gun assembly with 15ft cable, 350Amp @ 80%, suits 1/16" wire
Victor® Reg/flowmeter mixed gases	0781-3873	HSR flowmeter/regulator, Argon – Argon/CO ₂ mixed gases
Victor® Reg/flowmeter CO ₂	0781-0353	SR311 flowmeter/regulator, CO ₂ gas
Arcair® K3000 Gouging Torch	61065006	K3000 torch and 7ft cable, 600Amp @ 100%

For further information on this range contact your Thermal Arc District Manager or refer to our fully detailed Technical Sales Brochures at www.thermalarc.com.

^For detailed information see TWECO MIG water cooler product information.

*Used in CC mode for GMAW and FCAW welding.

**Power supplies not included. See Rack Systems brochure for details.



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