Thunderbolt XL AC/DC

225 or 300 Amp Arc Welding Power Source



Processes







Miller's 225 or 300 amp Thunderbolt® XL AC/DC power sources let you choose between AC or DC weld output to expand your welding options to either AC or DC Stick electrodes. DC output means fewer arc outages, less sticking, less spatter, better

control on thin work, and easier out-of-position welding. AC output produces less arc blow and easier starts. Thunderbolt XL AC/DC power sources come in two basic output configurations with models for several input power needs.

Accu-Set™ (patent pending), a Miller Exclusive design, provides accurate heat control with infinite amperage control. Additionally, the Thunderbolt XL allows higher duty cycle when amperage decreases, unlike some competitive products in the market. For the 225 amp model, in the AC welding mode, the duty cycle ranges from 20% at 225 amps to 100% at 100 amps.

Comes Complete with:

- 15 ft (4.5 m) electrode cable
- Electrode holder
- 10 ft (3 m) work cable with clamp
- Power cord (without plug)

Note: Thunderbolt XL AC/DC (#903 642) includes 230 V plug. Models do not include wall receptacle.

Features Benefits

Accu-Set™ amperage indicator	Accu-Set™ is a Miller exclusive design for accurately controlling amperage or heat output. As you turn the Accu-Set control, the indicator more clearly shows the amperage setting.						
Infinite current control	The precise control of the Thunderbolt® XL allows the operator to adjust output by as little as 1-amp increments. Users can always get the exact heat they need, unlike the step control design on competitive products.						
High 100% duty cycle rating	For the 225 amp model: 100 amps AC/65 amps DC For the 300 amp model: 130 amps AC/90 amps DC						
High DC weld output	Up to 150 amps for the 225 amp model, and up to 200 amps for the 300 amp model, available at 20% duty cycle. Thunderbolt XL 225 AC/DC model has 20% more DC output than competitive products.						
Output selector switch	Allows you to quickly select AC, DCEP or DCEN without adjusting the output leads.						
Fully varnished magnetic coils	One reason the Thunderbolt XL is so reliable is the varnish that protects and lengthens the life of the coils inside.						
Forced-draft cooling fan	The cooling fan runs continuously and helps to extend the life of the power source.						
Replaceable weld cables	Removable cables let you lengthen or replace cables easily in the future.						
Miller's True Blue® Warranty	Power source is warranted for 3 years parts and labor. Original main power rectifier parts are warranted for 5 years.						

30-200

Specifications (Subject to change without notice.)

	Rated Welding Output at 20% Duty Cycle	Welding Amperage High	e Range Low	Max. Open- Circuit Voltage	Amps I 115 V	nput at F 220 V	Rated Ou 230 V	tput 50 o 400 V	or 60 Hz 460 V	Dimensions	Net Weight
AC	225 A at 25 VAC, 60 Hz, (15% Duty Cycle at 50 Hz)	40-235	30-150	80	95	_	47.5	_	23.7	H: 18-3/4 in	104 lb
DC	150 A at 25 VDC, 60 Hz, (15% Duty Cycle at 50 Hz)	30-	-160							(476 mm) W: 12-3/4 in	(47 kg)
AC	300 A at 30 VAC, 50/60 Hz	65-300	40-200	80	_	70	67	39	34	(323 mm)	134 lb

Ordering Information See back page.

200 A at 25 VAC, 50/60 Hz



Thunderbolt®

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XL 300/200 AC/DC

XL AC/DC

Miller Electric Mfg. Co.

Phone: 920-735-4505 USA FAX: 920-735-4134 Canadian FAX: 920-735-4169 International FAX: 920-735-4125 Web Site

www.MillerWelds.com

Light Industrial



(61 kg)

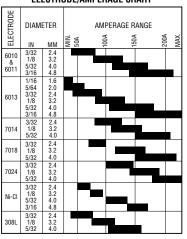
D: 17-1/2 in

(445 mm)

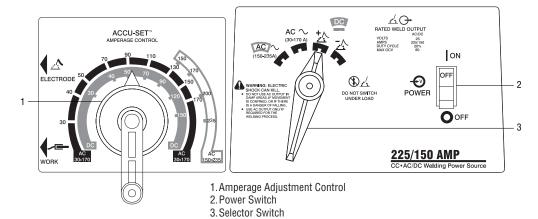
Electrode Charts

ELECTRODE POLARITY CHART								
ELECTRODE	*20	AC	POSITION	PENETRATION	USAGE			
6010	EP	_	ALL	DEEP	MIN. PREP, ROUGH,			
6011	EP	/	ALL	DEEP	HIGH SPATTER			
6013	EP, EN	1	ALL	LOW	GENERAL			
7014	EP, EN	1	ALL	MED.	SM00TH, EASY, FAST			
7018	EP	1	ALL	LOW	LOW HYDROGEN, STRONG			
7024	EP, EN	1	FLAT HORIZ. FILLET	LOW	SMOOTH, EASY, FASTER			
Ni-Cl	EP	1	ALL	LOW	CAST IRON			
308L	EP	✓ ALL		LOW	STAINLESS			
	10							

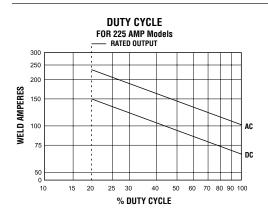
ELECTRODE/AMPERAGE CHART

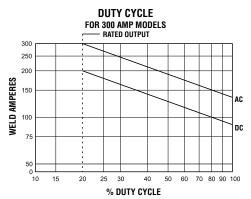


Control Panel

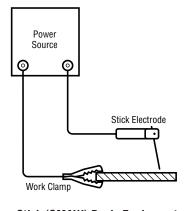


Performance Data





Ordering Information and System Checklist



Stick (SMAW) Basic Equipment

Power Source and Options	Stock No.	Description	Qty.	Price	
Thunderbolt® XL AC/DC	#903 642*	230 V, 50/60 Hz. Includes 5 ft (1.5 m) power cord w/230 V plug			
	#903 683	460 V, 50/60 Hz. Includes 7 ft (2.1 m) power cord			
Thunderbolt® XL AC/DC for International	#903 682	115/230 V, 50/60 Hz. Includes 7 ft (2.1 m) power cord			
Thunderbolt®	#903 686	220 V, 50/60 Hz. Includes 7 ft (2.1 m) power cord			
XL 300/200 AC/DC	#903 687	230/400 V, 50/60 Hz. Includes 7 ft (2.1 m) power cord			
	#903 688	460 V, 50/60 Hz. Includes 7 ft (2.1 m) power cord			
Running Gear	#043 927	Mounts easily to unit and provides convenient portability.			
		Includes two wheels, two feet and a handle.			
Miscellaneous					
Stick Electrodes		See charts above			
Helmet/Gloves/Scratch Brush					
Chipping Slag Hammer					
Wall Receptacle					
Date: Total Quoted Price:					

[🕪] Certified by Canadian Standards Association to both the Canadian and U.S. Standards.



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