Thunderbolt[®] XL AC

225 or 300 Amp Arc Welding Power Source



Processes







Even when using a basic machine, welders can't afford to sacrifice control. That's why our Thunderbolt® XL Stick welding power sources have the control to get the exact heat you need—always. Also, these machines allow weld time to increase when amperage decreases.

Two economical Thunderbolt XL models are available. The 225 offers a full 225 amp output at 20% duty cycle. The 300 provides 300 amps at 20% duty cycle. Both have the range and muscle to handle many Stick welding, hard surfacing, and cutting jobs. At the same time, they have the precision for low hydrogen and special alloy electrodes.

Accu-Set[™] (patent pending), a Miller Exclusive design, provides accurate heat control with infinite amperage control. Additionally, 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 225 AC (#903 641) includes 230 V plug. Models do not include wall receptacle.

Features Benefits

et™ is a Miller exclusive design for accurately controlling amperage or heat output. As you turn the Accu-Set the indicator more clearly shows the amperage setting.
cise control of the Thunderbolt® XL allows the operator to adjust output by as little as 1-amp increments. Users can get the exact heat they need, unlike the step control design on competitive products.
225 amp model: 100 amps AC 300 amp model: 130 amps AC
you to quickly select low or high range without adjusting the output leads.
son the Thunderbolt XL is so reliable is the varnish that protects and lengthens the life of the coils inside.
oling fan runs continuously and helps to extend the life of the power source.
able cables let you lengthen or replace cables easily in the future.
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Max. Open-

Circuit

Voltage

80

80

Specifications (Subject to change without notice.)

Rated Welding Output

225 A at 25 VAC. 60 Hz

(15% Duty Cycle at 50 Hz)

300 A at 30 VAC, 50/60 Hz

at 20% Duty Cycle

Light Industrial	
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Dimensions	Net Weight
H: 18-3/4 in (476 mm) W: 12-3/4 in (323 mm)	85 lb (39 kg)
D: 17-1/2 in (445 mm)	104 lb

(47 kg)

Thunderbolt®

Thunderbolt®

XL 225 AC

Model

Ordering Information See back page.



Welding

High

40 - 235

65 - 300

Amperage Range

Low

30-150

40-200

Amps Input at Rated Output 50 or 60 Hz,

230 V

47.5

2.3

67

3.6*

400 V

39

1.8*

Single-Phase

115 V

95

4.6

220 V

70

5 4



XL 300 AC *While idling

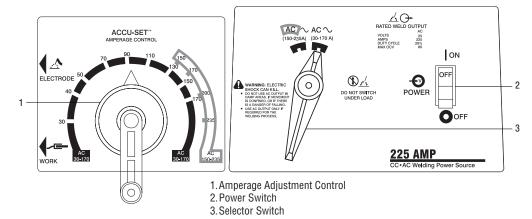
Electrode Charts

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	/	ALL	LOW	GENERAL		
7014	EP, EN	/	ALL	MED.	SMOOTH, EASY, FAST		
7018	EP	1	ALL	LOW	LOW HYDROGEN, STRONG		
7024	EP, EN	\	FLAT HORIZ. FILLET	LOW	SMOOTH, EASY, FASTER		
Ni-Cl	EP	/	ALL	LOW	CAST IRON		
308L	EP	/	ALL	LOW	STAINLESS		
*EP = ELECTRODE POSITIVE (REVERSE POLARITY) EN = ELECTRODE NEGATIVE (STRAIGHT POLARITY)							

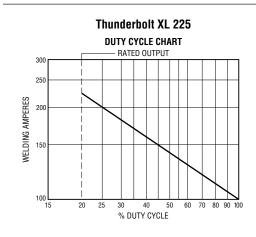
ELECTRODE/AMPERAGE CHART

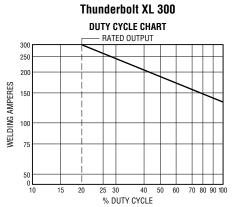
				בוווינט		
ELECTRODE	DIAM	ETER			AGE RANGE	
373	IN	MM	MIN. 50A	100A	150A	200A MAX.
6010 & 6011	3/32 1/8 5/32 3/16	2.4 3.2 4.0 4.8			+	
6013	1/16 5/64 3/32 1/8 5/32 3/16	1.6 2.0 2.4 3.2 4.0 4.8				
7014	3/32 1/8 5/32	2.4 3.2 4.0				
7018	3/32 1/8 5/32	2.4 3.2 4.0		•		
7024	3/32 1/8 5/32	2.4 3.2 4.0				
Ni-CI	3/32 1/8 5/32 3/16	2.4 3.2 4.0 4.8				
308L	3/32 1/8 5/32	2.4 3.2 4.0				

Control Panel

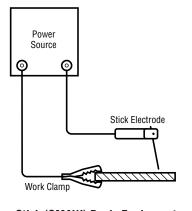


Performance Data





Ordering Information and System Checklist



Stick (SMAW) Basic Equipment

Power Source and Options	Stock No.	Description	Qty.	Price
Thunderbolt® XL 225 AC	#903 641*	230 V, 50/60 Hz. Includes 5 ft (1.5 m) power cord w/230 V plug		
Thunderbolt® XL 225 AC for International	#903 681	115/230 V, 50/60 Hz. Includes 7 ft (2.1 m) power cord		
Thunderbolt® XL 300 AC	#903 684 #903 685	220 V, 50/60 Hz. Includes 7 ft (2.1 m) power cord 230/400 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:				

Gertified by Canadian Standards Association to both the Canadian and U.S. Standards.



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