

Thunderbolt® 210 MV

Stick Welding
Power Source



QUICK SPECS

Light Industrial Applications

Garage/job shops
Farm/ranch
Maintenance repair
Light production-line work
Shipyards install/repair

Process Stick (SMAW)

Input Power 1-phase power

Max. Open-Circuit Voltage 9.5 V

Amperage Range

120 V: 10–110 A

240 V: 10–210 A

Maximum Mild Steel Thickness

120 V: 1/8 in.

240 V: 1/2 in.

Best-of-class dependable, portable, powerful stick welder.

Segmented display to make setup and fine tuning easier.

More versatile — weld up to 210 amps with the flexibility of 120- or 240-volt power.

Hot Start™ technology provides easy, quick and reliable arc starts.

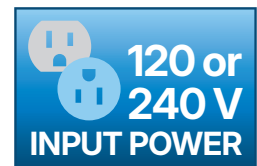
Infinite amperage control lets you set the amperage in 1-amp increments for better fine tuning.



NEW!

Comes with:

- 10 ft. (3 m) No. 4 electrode cable with heavy-duty electrode holder
- 10 ft. (3 m) work cable with clamp
- 6.5 ft. (2 m) power cord with multi-voltage plugs for 120 V and 240 V
- Adjustable shoulder strap



Specifications (Subject to change without notice.)



INPUT POWER	WELDING AMPERAGE RANGE	RATED OUTPUT	MAXIMUM AMPS INPUT AT RATED LOAD OUTPUT	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS	NET WEIGHT
120 V, 50/60 Hz	10–110 A	65 A at 60% duty cycle, 50 A at 100% duty cycle	27.8	9.5 V	H: 10.2 in. (260 mm) W: 6.3 in. (160 mm) D: 13.4 in. (340 mm)	13 lb. (5.9 kg)
240 V, 50/60 Hz	10–210 A	135 A at 60% duty cycle, 105 A at 100% duty cycle	44.9			



Conforms to ANSI/IEC Std. 60974-1.
Conforms to CSA Std. E60974-1.



Power source is warranted for three years, parts and labor.
Original main power rectifier parts are warranted for five years.



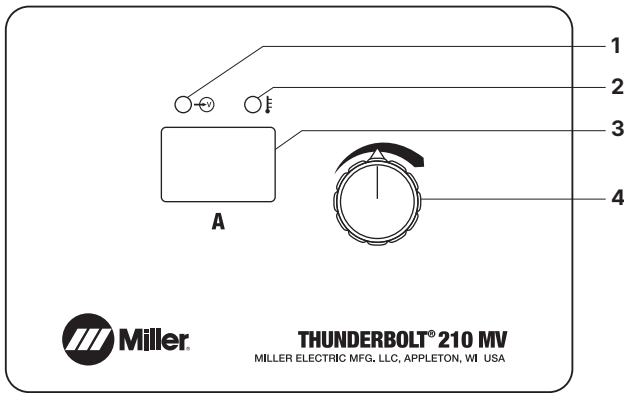
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MillerWelds.com



Control Panel



- 1. Output Indicator Light
- 2. Overtemperature Light
- 3. Digital Display
- 4. Amperage Adjustment Control

Electrode Charts

ELECTRODE POLARITY CHART

Electrode	DC*	AC	Position	Penetration	Usage
6010	EP	—	All	Deep	Min. prep, rough, high spatter
6011	EP	✓	All	Deep	General
6013	EP, EN	✓	All	Low	Smooth, easy, fast
7014	EP, EN	✓	All	Med.	Low hydrogen, strong
7018	EP	✓	All	Low	Smooth, easy, faster
7024	EP, EN	✓	Flat horiz. fillet	Low	Cast iron
Ni-CI	EP	✓	All	Low	Stainless
308L	EP	✓	All	Low	

*EP = Electrode positive (reverse polarity)
EN = Electrode negative (straight polarity)

ELECTRODE/AMPERAGE CHART

Electrode	Diameter		Amperage Range					
	in.	mm	Min.	50 A	100 A	150 A	200 A	Max.
6010 and 6011	3/32	2.4						
	1/8	3.2						
	5/32	4.0						
	3/16	4.8						
6013	1/16	1.6						
	5/64	2.0						
	3/32	2.4						
	1/8	3.2						
	5/32	4.0						
7014	3/32	2.4						
	1/8	3.2						
	5/32	4.0						
7018	3/32	2.4						
	1/8	3.2						
	5/32	4.0						
7024	3/32	2.4						
	1/8	3.2						
	5/32	4.0						
Ni-CI	3/32	2.4						
	1/8	3.2						
	5/32	4.0						
308L	3/16	4.8						
	3/32	2.4						
	1/8	3.2						
	5/32	4.0						

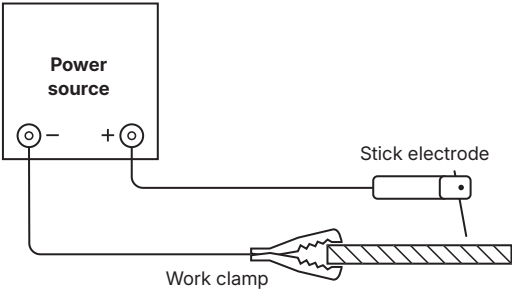
Ideal performance for most 6010, 6011, 6013 and 7018 electrodes.

Note: 6010 not recommended for open root welding.

Electrode range: 1/16 – 3/16 in.

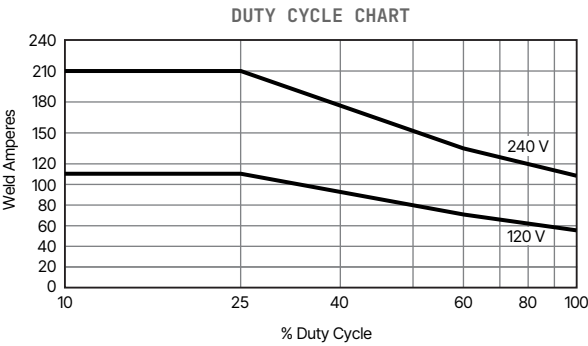
Note: Some limitations with 3/16-inch rods based on amperage.

Typical Installation (DCEP)



Note: Also DCEN polarity capable.

Performance Data



Note: DC TIG capable.

Ordering Information

POWER SOURCE	STOCK NO.	DESCRIPTION	QTY.	PRICE
Thunderbolt® 210 MV	907909	Single-phase, 120 and 240 V		
Accessories				
Stick Electrodes		See charts above		
Helmet/Gloves/Scratch Brush				
Chipping Slag Hammer				
Wall Receptacle				

DATE : TOTAL QUOTED PRICE:

Distributed by:

