Venture™ 150 S

Issued May 2025 • Index No. BP/1.0

Battery Powered Stick/TIG Welding Power Source

Quick Specs

Light Industrial Applications
- Mechanical contractors
- Maintenance and repair
- Construction
- Mobile welding

Processes
- Stick (SMAW)
- TIG (GTAW)

Amperage Range **DC Stick:** 20–150 A
DC TIG: 10–160 A

Net Weight 26.5 lb. (12 kg)

Save Time
Faster setup and pack-up saves up to 250 hours annually — that's more time for welding.

Compact Design
Light, convenient and easy to carry between job sites.

Engineered Specifically for Welding
Swappable battery packs so you can weld all day.

Reliable Output
100% duty cycle at maximum output

Swappable batteries that are engineered for welding. Lightweight and packed with power, the Venture 150 S battery powered power source allows you to be more nimble on the job. Less equipment to carry — more time to weld.

6010 stick electrode capability. Superior stick arc performance even on the difficult-to-run electrodes like E6010.

Hot Start.™ Adaptive control provides positive arc starts without sticking.

Lift-Arc™ provides arc starting that minimizes contamination of the electrode without the use of high-frequency.

Created for versatility. Batteries are lightweight and swappable, so users can weld anywhere.

Fan-On-Demand.™ Power source cooling system operates only when needed, reducing noise, energy use, and the amount of contaminants pulled through the machine.

Thermal overload protection helps prevent machine damage in light industrial applications.

Low OCV Stick. A simple design that reduces the open-circuit voltage to 12-16 volts when the welding power source is not in use. Can be enabled or disabled. Some jobs require this.

Stick-Stuck detects if the electrode is stuck to the work piece and turns the welding output off to safely and easily remove the electrode.

Comes complete with:
- Venture 150 S power source
- 400 Wh battery
- Battery charger
- 10 ft. (3 m) work cable with clamp and 50 mm Dinse-style connector
- 10 ft. (3 m) stick electrode holder with 50 mm Dinse-style connector
- Shoulder strap with pad
- 8 Rubber bumpers/feet

TRUE BLUE® 3YR. WARRANTY

Power source is warrantied for three years, parts and labor. Charger is warrantied for one year. Battery is warrantied for one year or 1,000 charge cycles, whichever comes first. Warranty applies only under proper usage and storage conditions.

Miller Electric Mfg. LLC
An ITW Welding Company
1635 West Spencer Street
P.O. Box 1079
Appleton, WI 54912-1079 USA

Equipment Sales US and Canada
Phone: 866-931-9730
International Phone: 920-735-4554

MillerWelds.com

Certified System ISO 9001 Quality

Swappable Batteries Made to Weld

Engineered for Durability and Safety	Battery chemistry and cell design are engineered specifically for high power applications like welding
Innovative Software Design	Battery management software protects the battery and allows it to operate optimally throughout a range of conditions
Variable Charging	Fast charging (from 0 to 95% in <30 minutes) enables a quick charge time and throughput with the flexibility of standard charging (<60 minutes) for extended life
Created for Versatility	Batteries are lightweight and swappable, so users can weld anywhere
Long Life	Over 1,000 charge cycles under typical use cases and with proper care

Operation Modes

Manual mode

1. Press MENU soft-key.
2. Rotate knob to scroll and press knob to select a menu item.

Process Settings

Stick Welding Mode

Stick XX10 Welding Mode

TIG Welding Mode

Specifications (Subject to change without notice.)

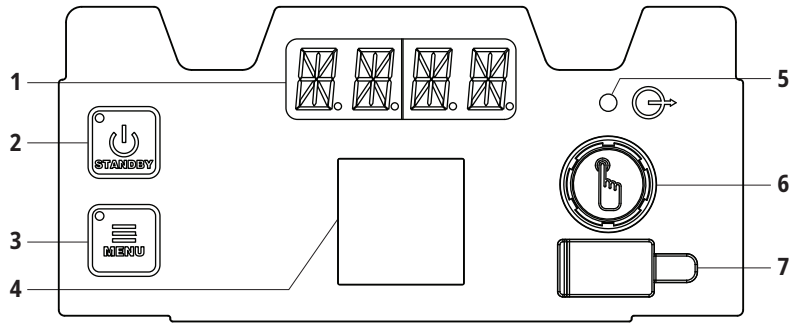
CC DC 1 Phase

Amperage Range	Battery Charging Options			Battery Voltage	Max. Open-Circuit Voltage	Dimensions	Net Weight
Stick: 20–150 A TIG: 10–160 A	Charge 0–95%	Fast <30 min.*	Standard <60 min.*	52.8 V (396 Wh)	80 VDC	H: 13.2 in. (335 mm) W: 8.4 in. (213 mm) D: 19 in. (483 mm)	26.5 lb. (12 kg)

**Charge times are subject to battery and ambient temperatures.*

Intertek *Conforms to CSA Std. E60974-1.*

Control Panel

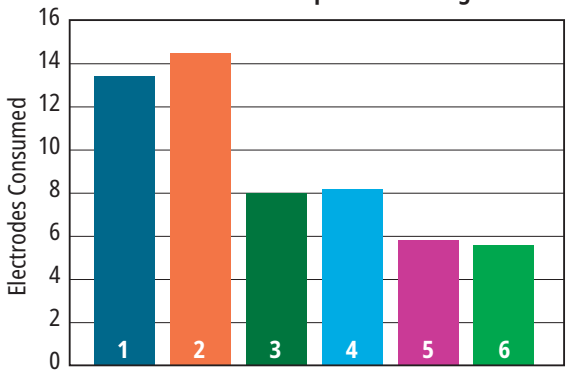


1. LED Display
2. Power On/Off Button
3. Menu Button
4. Color LCD Display
5. Output indicator light
6. Setting/Selector Push Knob
7. USB Software Port

Performance Data

Stick Welding

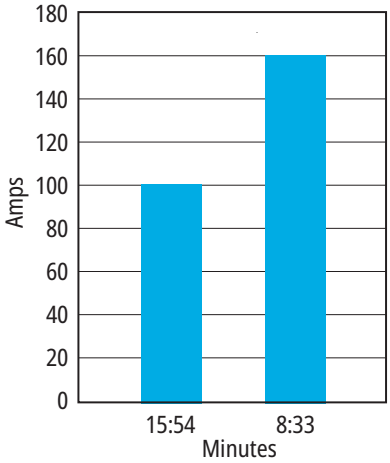
Electrode Consumption Per Charge



	Electrode Classification	Consumed
1	3/32 in. 7018 at 80 A	13.45
2	3/32 in. 6010 at 60 A	14.49
3	1/8 in. 7018 at 110 A	8.02
4	1/8 in. 6010 at 90 A	8.14
5	1/8 in. 7018 at 150 A	5.79
6	5/32 in. 6010 at 120 A	5.57

TIG Welding

TIG Arc Time Per Charge



Genuine Miller® Accessories

Venture™ 150 S Power Source 907888
Simple-to-use operator interface providing only the necessary controls in a compact machine.

Weldcraft™ A-150 Two-Piece Torch 400061
Assembled Miller two-piece torch created to maximize efficiency while TIG welding.

Venture™ 150 S Battery 301756
400 Wh battery pack engineered specifically for the Venture 150 S.

Venture™ 150 S Charger 301755
Fast charging (from 0 to 95% in <30 minutes) enables a quick charge time and throughput with the flexibility of standard charging (<60 minutes) for extended life.

Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
Venture™ 150 S Package	**951000202**	Battery powered welder with battery and charger		
Individual Components				
Venture 150 S Power Source	**907888**	Power source only (no battery or charger)		
Venture 150 S Battery	**301756**	Battery pack for the Venture 150 S		
Venture 150 S Charger	**301755**	Charges Venture 150 S batteries, standard 110-volt plug-in		
Accessories				
Weldcraft™ A-150 Two-Piece Torch	**400061**	150-amp air cooled TIG torch		

Date:

Total Quoted Price:

Distributed by:

The Power of Blue®

© 2025 Miller Electric Mfg. LLC