

Diversion™ 180

TIG Welding Power Source 

Quick Specs

Personal User Applications

Chassis/frame fabrication
Aluminum oil pans
Stainless exhaust
Weld repair on home equipment
Metal art
Vocational training

Process

TIG (GTAW)

Input Power

115 and 230 V, 1-phase

Rated Output 150 A at 16 V, 20% duty cycle

Amperage Range 10–125 A (115 V)
10–180 A (230 V)

Max. Open-Circuit Voltage 80

Net Weight 50 lb. (23 kg)

The Personal User's TIG Machine.



Easy-to-understand operator interface.

1. Power-up
2. Select material type
3. Set amperage based on material thickness — then weld! It's as easy as 1, 2, 3.

Inverter-based AC/DC power source provides a more consistent welding arc while using less power.

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

High-frequency arc starting provides non-contact arc initiation that reduces tungsten and material contamination.

Auto-postflow adjusts the length of postflow time based on the amperage setting, shielding your tungsten and eliminating the need to set the postflow time.



Comes complete with:

- Power source with primary cord and MVP™ plugs for 120 V and 240 V
- 12.5 ft. (3.8 m) Weldcraft™ A-150 (WP-17) TIG torch with backcap, nozzle, 3/32 in. (2.4 mm) collet and collet body, and 2% ceriated tungsten
- RFCS-RJ45 remote foot control
- 12 ft. (3.7 m) work cable with clamp
- Flow gauge regulator with hose

Just supply argon gas, filler rod, gloves and helmet and you're ready to weld!

Portable. Whether it's in the shop, garage or at the race track, at 50 pounds they can be taken anywhere.

Advanced squarewave AC provides a fast freezing weld puddle and deeper penetration.



Includes **RFCS-RJ45 remote foot control** and **multi-voltage plug (MVP™)**. MVP allows for connection to 120- or 240-volt receptacles without tools. Choose the plug that fits the receptacle and connect it to the power cord.



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



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Specifications (Subject to change without notice.)

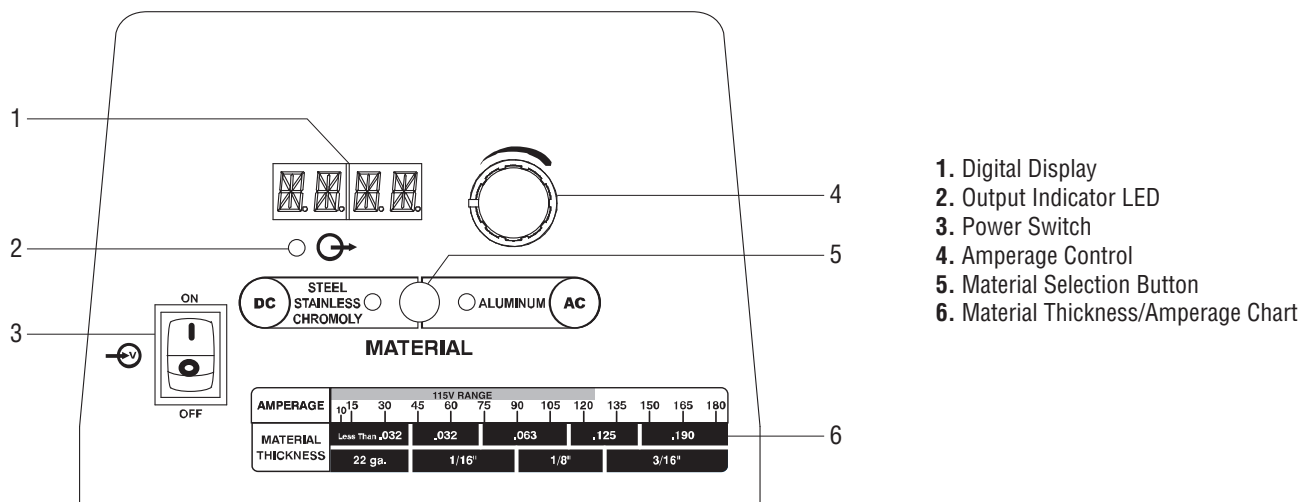


Input Power	Welding Amp Range	Rated Output	Amps Input at Rated Output	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
115 V	10–125 A	60 A at 12.4 V, 100% duty cycle	11.3 (.88)*	1.3 (.1)*	1.2 (.03)*	80 VDC	H: 17 in. (433 mm) W: 9.875 in. (251 mm) D: 23.875 in. (608 mm)	50 lb. (23 kg)
		125 A at 15 V, 35% duty cycle	26.5 (.88)*	3.1 (.1)*	3.0 (.03)*			
230 V	10–180 A	60 A at 12.4 V, 100% duty cycle	5.6 (.44)*	1.3 (.1)*	1.2 (.03)*			
		150 A at 16 V, 20% duty cycle	16 (.44)*	3.7 (.1)*	3.6 (.03)*			
		180 A at 17.2 V, 10% duty cycle	20.5 (.44)*	4.7 (.1)*	4.6 (.03)*			

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

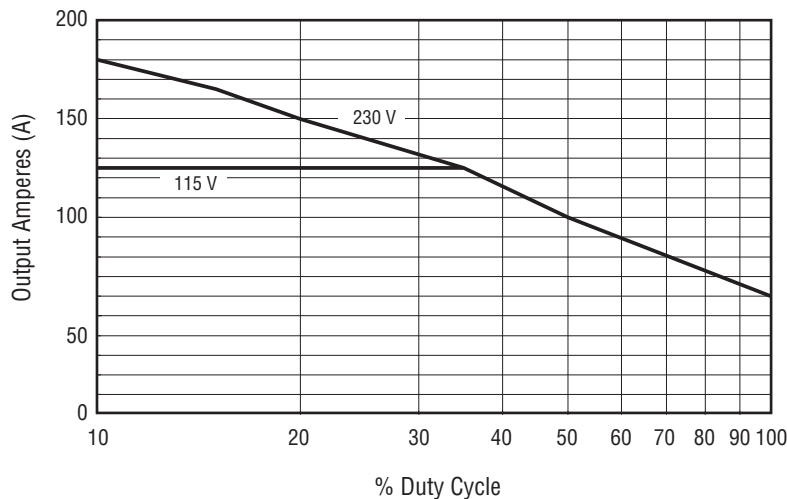
*While idling.

Control Panel



Performance Data

Duty Cycle Chart



Genuine Miller® Accessories

MVP™ Plugs



219258
For power cable 6-50P
(240 V/50 A).
Included with Diversion.



219261
For power cable 5-15P
(120 V/15 A).
Included with Diversion.



219259
For power cable 5-20P
(120 V/20 A). Optional, not included
with Diversion.



**Protective Cover
300579**



Running Gear/Cylinder Rack 301239
Heavy-duty construction with 8-inch rubber rear wheels. Convenient front handles, cable holders and plastic consumable box. For gas cylinders no greater than 7 inches (178 mm) in diameter or 65 pounds (29.5 kg) in weight.



Weldcraft™ A-125 Torch Body WP-9
125-amp air-cooled torch body. 13N Series consumables are sold separately.



Weldcraft™ A-150 Torch Body WP-17
150-amp air-cooled torch body (included with Diversion 180). 10N Series consumables are sold separately.



TIG Torch Accessory Kit AK2C
For use with A-150 (WP-17) TIG torch. Includes one short back cap, one of each size (#4, #5, #6) alumina nozzle, and one of each size (.040, 1/16, 3/32 in.) of the following: collet, collet body, and 7-inch 2% ceriated tungsten electrode.

Remote Controls



**RCCS-RJ45 Remote Fingertip Control
301146**

North/south rotary-motion fingertip current and contactor control attaches to TIG torch using two hook-and-loop fasteners. Great for applications that require a finer amperage control. Includes 13.25-foot (4 m) cord with plug.



RFCS-RJ45 Remote Foot Control 300432

Foot pedal current and contactor control. Includes 14-foot (4.3 m) cord with plug. Included with Diversion.

RJ45 to 14-Pin Adapter Cord 300688

12-inch (305 mm) adapter cord allows Miller® 14-pin heavy-duty wired foot control (194744) or 14-pin wireless foot control (300429) to be used with the Diversion 180.



TIG Gloves
263346 Small (Women's)
263347 Medium
263348 Large
263349 X-Large
Completely unlined, goat grain leather with triple-padded palm.



TIG/Multitask Gloves
263352 Small
263353 Medium
263354 Large
263355 X-Large
Goat grain leather with dual-padded palm and wool back.



TIG Torch Accessory Kit AK-150MFC

Allows welding operators to customize their standard A-150 (WP-17) TIG torch for their specific application. Kit converts into 28 different torch styles while using the existing cable. Features collets, collet bodies, nozzles, torch heads, handle and more.

Ordering Information

Power Source	Stock No.	Description	Qty.	Price
Diversion™ 180	907627	Single-phase, 120 and 240 V, 50/60 Hz		
MVP™ Plugs				
MVP 240 V 6-50P	219258	Used to connect power source to 6-50R receptacle (included with machine)		
MVP 120 V 5-15P	219261	Used to connect power source to 5-15R receptacle (included with machine)		
MVP 120 V 5-20P	219259	Used to connect power source to 5-20R receptacle (optional, not included with machine)		
Remote Controls				
RCCS-RJ45	301146	Remote fingertip control (optional, not included with machine)		
RFCS-RJ45	300432	Remote foot control (included with machine)		
RJ45 to 14-Pin Adapter Cord	300688	Used to connect 14-pin heavy-duty wired foot control (194744) or 14-pin wireless foot control (300429) to Diversion 180		
Accessories				
Protective Cover	300579			
Running Gear/Cylinder Rack	301239			
TIG Welding Gloves		See page 3		
Weldcraft™ A-125 (WP-9) Torch Body	WP-9			
Weldcraft™ A-150 (WP-17) Torch Body	WP-17			
TIG Torch Accessory Kits	AK2C	For use with Weldcraft™ A-150 (WP-17) Torch		
	AK-150MFC	For use with Weldcraft™ A-150 (WP-17) Torch		

Date:

Total Quoted Price:

Distributed by:

