

Diversion™ 165 and 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

165: 230 V, 1-Phase
180: 115 and 230 V, 1-Phase

Rated Output 150 A at 16 V, 20% Duty Cycle

Amperage Range **165:** 10–165 A
180: 10–125 A (115 V)
180: 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 material thickness range—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.



Diversion 165

Diversion 180

Comes complete with:

- Power source with primary cord—50 A, 240 V plug (165 model) **OR** MVP™ plugs for 120 V and 240 V (180 model)
 - Weldcraft™ A-150 (WP-17) 12.5-ft. (3.8 m) TIG torch with backcap, nozzle, 3/32-in. (2.4 mm) collet and collet body, and 2% ceriated tungsten
 - RFCS-RJ45 remote foot control
 - Work clamp with 12-ft. (3.7 m) cable
 - 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.



Both models include **RFCS-RJ45 remote foot control** and the Diversion 180 also includes our **Multi-Voltage Plug (MVP™)** which allows for connection to 120- or 240-volt receptacles without tools by choosing the plug that fits the receptacle and connecting it to the power cord.



Power source is warranted for 3 years, parts and labor.
Original main power rectified parts are warranted for 5 years.



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Specifications (Subject to change without notice.)

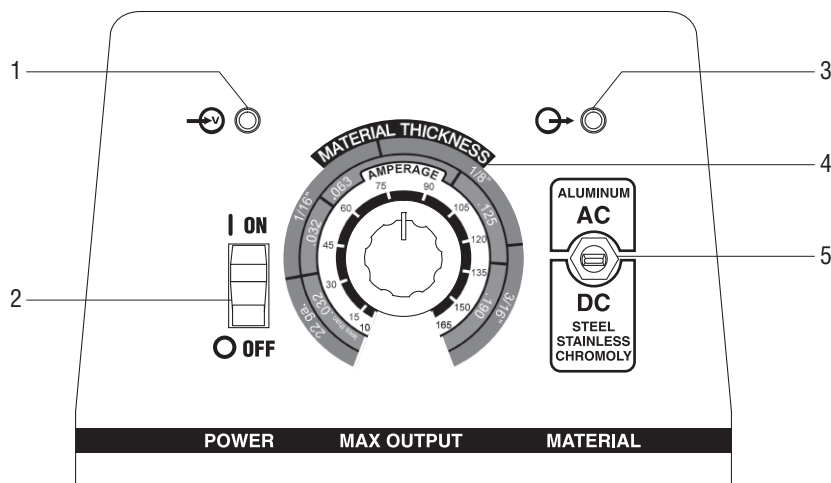


Model	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
Diversion 165	230 VAC	10–165 A	60 A at 12.4 V, 100% duty cycle	8 A (.20)*	1.8 (.04)*	1.2 (.02)*	80	H: 17 in. (433 mm) W: 9.875 in. (251 mm) D: 23.875 in. (608 mm)	50 lb. (23 kg)
			150 A at 16 V, 20% duty cycle	23 A (.20)*	5.3 (.04)*	3.7 (.02)*			
			165 A at 16.6 V, 15% duty cycle	25.5 A (.20)*	5.9 (.04)*	4.2 (.02)*			
Diversion 180	115 VAC	10–125 A	60 A at 12.4 V, 100% duty cycle	11.3 (.88)*	1.3 (.1)*	1.2 (.03)*			
			125 A at 15 V, 35% duty cycle	26.5 (.88)*	3.1 (.1)*	3.0 (.03)*			
	230 VAC	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.

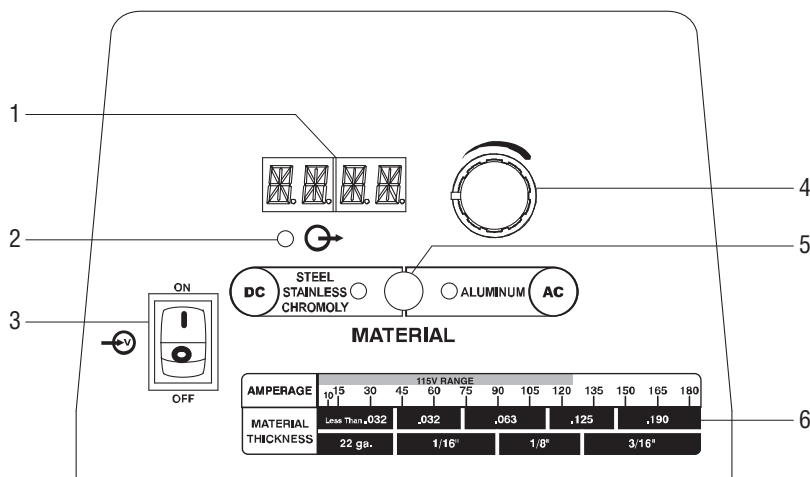
*While idling.

Diversion™ 165 Control Panel



1. Power On LED
2. Power Switch
3. Output Indicator LED
4. Material Thickness/Amperage Control
5. Material Switch

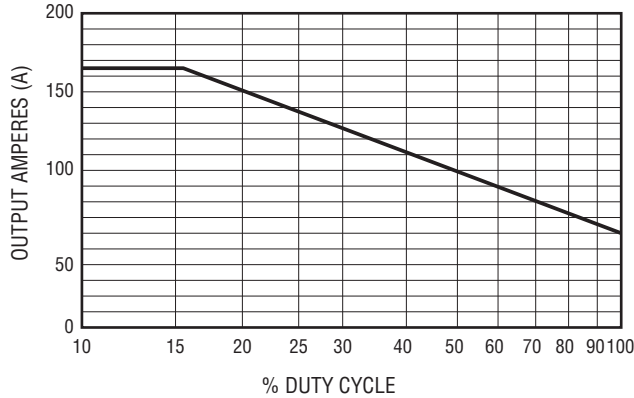
Diversion™ 180 Control Panel



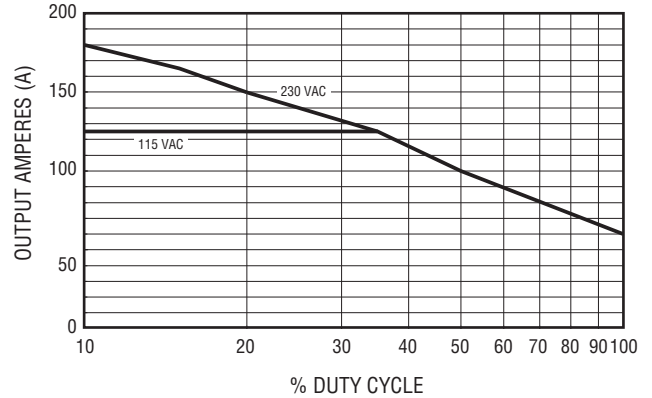
1. Digital Display
2. Output Indicator LED
3. Power Switch
4. Amperage Control
5. Material Selection Button
6. Material Thickness/Amperage Chart

Performance Data

DIVERSION 165 DUTY CYCLE CHART



DIVERSION 180 DUTY CYCLE CHART



Genuine Miller® Accessories

MVP™ Plugs for Diversion™ 180



#219 258
For power cable 6-50P
(240 V/50 A).
Included with machine.



#219 261
For power cable 5-15P
(120 V/15 A).
Included with machine.



#219 259
For power cable 5-20P
(120 V/20 A). Optional, not included
with machine.

Remote Controls



RCCS-RJ Remote Fingertip Control #301 146

North/south rotary-motion contactor and current control for Diversion 165 and 180. Includes 14-foot (4.3 m) cord with RJ45 connector.



RFCS-RJ45 #300 432
Remote foot control. Comes standard with Diversion models.

Adapter Cord for RJ45 to 14-Pin #300 688
12-inch adapter cord to allow the Miller 14-pin industrial foot controls to be used with the Diversion 165 and 180.



Protective Cover #300 579



Running Gear/Cylinder Rack #301 239
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.



TIG Gloves
#263 345 X-Small (Women's)
#263 346 Small (Women's)
#263 347 Medium
#263 348 Large
#263 349 X-Large
Completely unlined, goat grain leather with triple-padded palm.



TIG/Multitask Gloves
#263 352 Small
#263 353 Medium
#263 354 Large
#263 355 X-Large
Goat grain leather with dual-padded palm and wool back.



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



#AK-150MFC Accessory Kit
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™ 165	#907 626	Single-phase, 240 V, 50/60 Hz		
Diversion™ 180	#907 627	Single-phase, 120 and 240 V, 50/60 Hz		
MVP™ Plugs for Diversion 180				
MVP 240 V 6-50P	#219 258	Used to connect power source to 6-50R receptacle (included with machine)		
MVP 120 V 5-15P	#219 261	Used to connect power source to 5-15R receptacle (included with machine)		
MVP 120 V 5-20P	#219 259	Used to connect power source to 5-20R receptacle (optional, not included with machine)		
Remote Controls				
RCCS-RJ	#301 146	Remote fingertip control (optional, works with Diversion 165 and 180)		
RFCS-RJ45	#300 432	Remote foot control (included with Diversion 165 and 180)		
Adapter Cord for RJ45 to 14-Pin	#300 688			
Accessories				
Protective Cover	#300 579			
Running Gear/Cylinder Rack	#301 239			
TIG Welding Gloves		See page 3		
Weldcraft™ A-125 (WP-9) Torch Body	#WP-9			
AK-150MFC Accessory Kit	#AK-150MFC			

Date:

Total Quoted Price:

Distributed by:

