

# 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.

**DIVERSION™**

#### 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.

**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.

#### 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!*



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.

**TRUE BLUE**  
3 YR. WARRANTY

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



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[MillerWelds.com](http://MillerWelds.com)

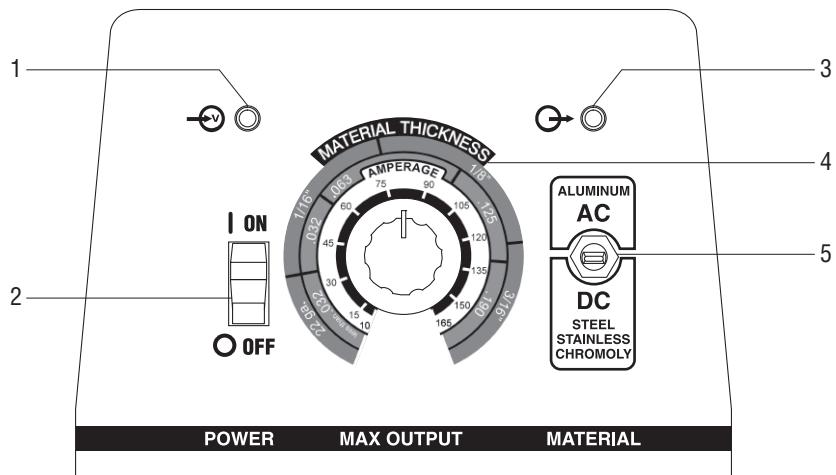


Model	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
Diversion 165	230 VAC	10–165 A	60 A at 12.4 V, 100% duty cycle	8 A (.20)*	1.8 (.04)*	1.2 (.02)*	80	H: 17 in. (433 mm) W: 9.875 in. (251 mm) D: 23.875 in. (608 mm)	50 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)*	80	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 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.

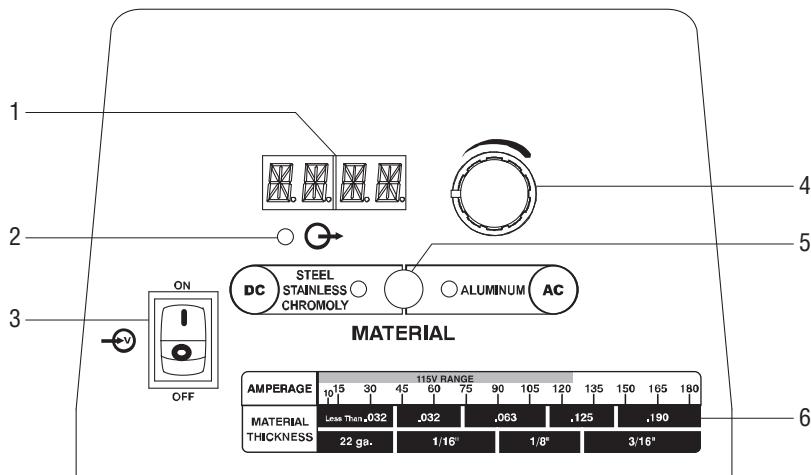
\*While idling.

## Diversion™ 165 Control Panel



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

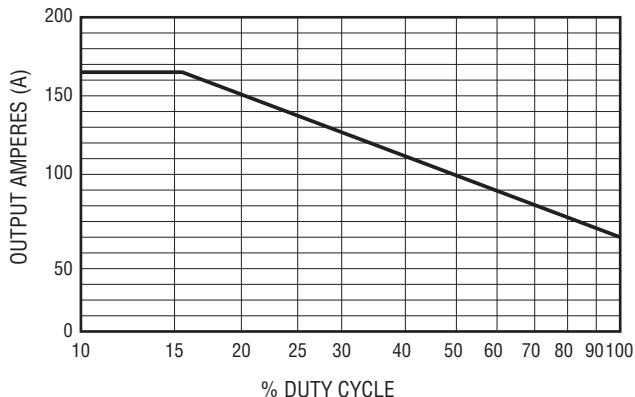
## Diversion™ 180 Control Panel



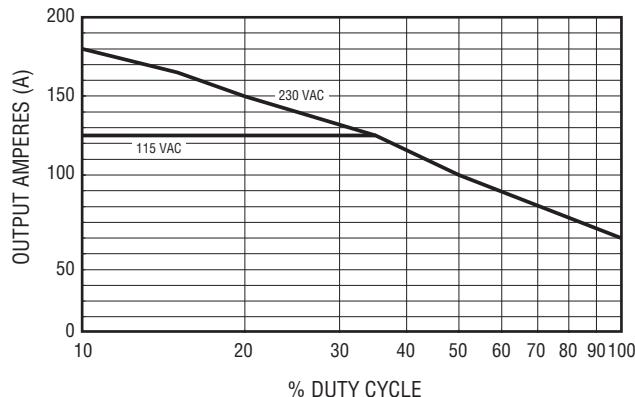
1. Digital Display
2. Output Indicator LED
3. Power Switch
4. Amperage Control
5. Material Selection Button
6. Material Thickness/Amperage Chart

# 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**



**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.



**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.

## 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		
<b>MVP™ Plugs for Diversion 180</b>				
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)		
<b>Remote Controls</b>				
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			
<b>Accessories</b>				
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:

