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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™

Comes complete with:
- Power source with primary cord (50 A, 230 V plug on 165 model) **OR** (MVP™ plugs on 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
- *TIG Welding for Dummies* book with content by Miller

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

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.

Diversion 165

Diversion 180

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 for 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.

Both models include **RFCS-RJ45 remote foot control** and the Diversion 180 also includes our **Multi-Voltage Plug (MVP™)** which allows for connection to 115 or 230-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.

Miller®

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

Equipment Sales US and Canada
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

MillerWelds.com

ISO 9001 REGISTERED QUALITY SYSTEM

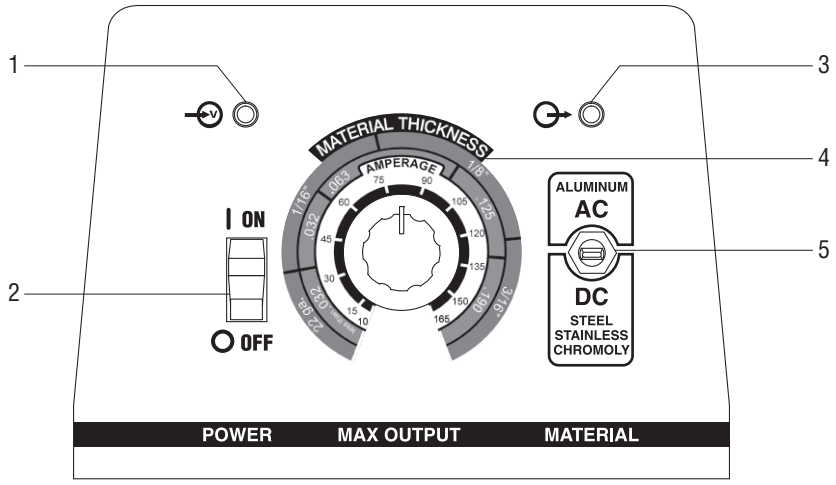
Specifications (Subject to change without notice.)

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.

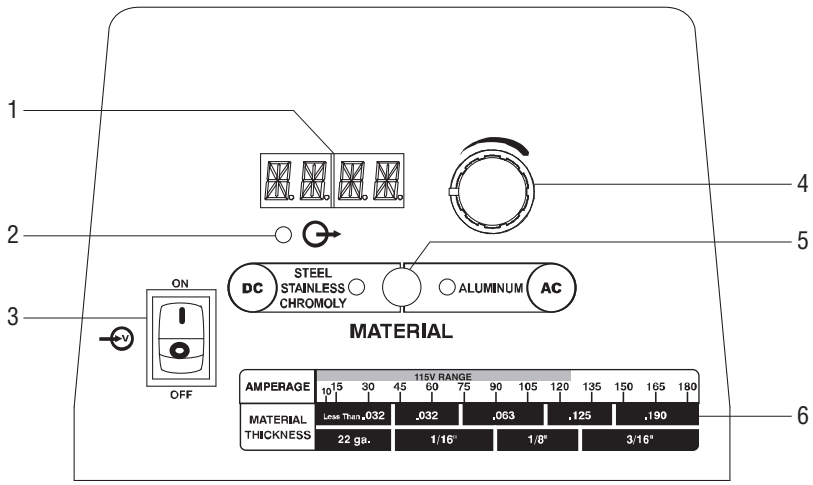
**While idling.*

Diversion™ 165 Control Panel



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

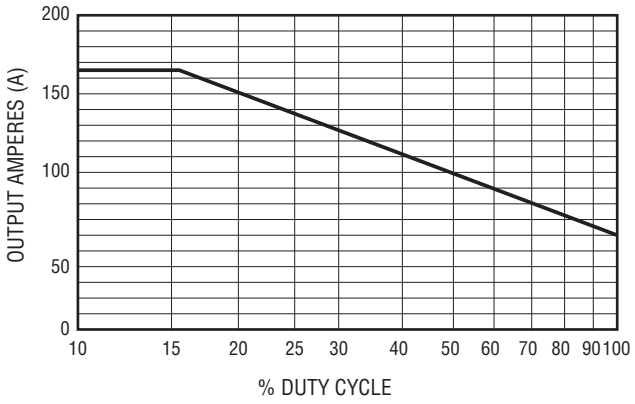
Diversion™ 180 Control Panel



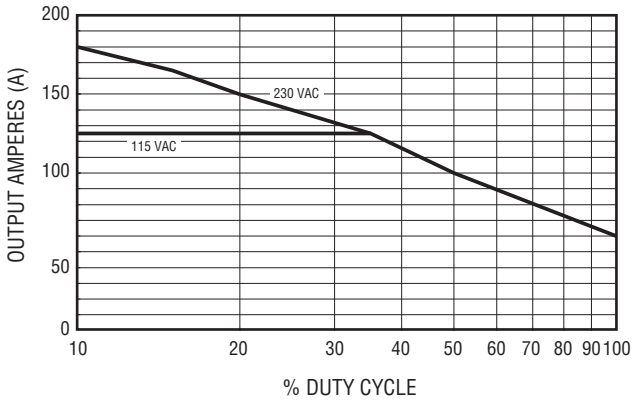
1. Digital Display
2. Output Indicator LED
3. Power Switch
4. Amperage Control
5. Material Selection Button
6. Material Thickness/Amperage Chart

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 (230 V/50 A).
Included with machine.

#219 261
For power cable 5-15P (115 V/15 A).
Included with machine.

#219 259
For power cable 5-20P (115 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 #770 187
Heavy-duty construction.
For gas cylinders no larger than 7 inches (178 mm) in diameter.
Maximum weight is 100 pounds (45 kg).

Small Running Gear/Cylinder Rack #300 425
Durable construction.
For gas cylinders no larger than 7 inches (178 mm) in diameter.
Maximum weight is 75 pounds (34 kg).

Premium 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, premium goat grain leather with triple-padded palm.

Premium TIG/Multitask Gloves
#263 352 Small
#263 353 Medium
#263 354 Large
#263 355 X-Large
Premium 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 Weldcraft® A-150 (WP-17) TIG torch for their specific application. Kit converts into 28 different torch styles while using the existing cable. Features nozzles, collets, collet bodies, torch heads, handle and more.

Ordering Information

Power Source	Stock No.	Description	Qty.	Price
Diversion™ 165	**#907 626**	Single-phase, 230 V, 50/60 Hz		
Diversion™ 180	**#907 627**	Single-phase, 115 and 230 V, 50/60 Hz		
MVP™ Plugs for Diversion 180				
MVP 230 V 6-50P	**#219 258**	Used to connect power source to 6-50R receptacle (included with machine)		
MVP 115 V 5-15P	**#219 261**	Used to connect power source to 5-15R receptacle (included with machine)		
MVP 115 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	**#770 187**			
Small Running Gear/Cylinder Rack	**#300 425**			
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:**

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The Power of Blue®

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