

Diversion™ 165 and 180

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**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

Processes

TIG (GTAW)

Input Power

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

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

Weight 50 lb (23 kg)

The Power of Blue.®

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.

HF start for non-contact arc starting that eliminates tungsten and material contamination.

Fan-On-Demand™ reduces noise and maintenance by lessening the amount of airborne contaminants pulled through the machine, while sufficiently cooling thermally protected internal components.

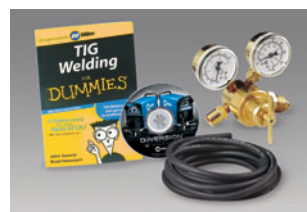
Portable. Whether it's in the shop, garage or at the race track, at 50 lb they can be taken anywhere.

Auto-Postflow protects the weld end zone and electrode by optimizing postflow time based on welding amperage.

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



Diversion 165



TIG Welding for Dummies book, set-up and operation DVD, Smith Argon regulator/flow gauge with hose, and welding project blueprint (not shown) included with each Diversion model.
Just supply Argon gas, filler rod, gloves and helmet and you're ready to weld!



Diversion 180 includes RFCS-RJ45 remote foot control and Miller's exclusive **multi-voltage plug (MVP™)** which allows connection to 115 or 230 V receptacles without tools. Choose the plug that fits the receptacle and connect it to the power cord.

New!
Diversion 180

Comes complete with:

- Power source with primary cord (50 A, 230 V plug on 165 model) **OR** (MVP™ plugs on 180 model)
- 12.5 ft (3.8 m) Weldcraft® LS17 TIG torch with backcap, ceramic gas cup, 3/32 in. (2.4 mm) collet and collet body, and 2% ceriated tungsten
- RFCS-RJ45 remote foot control (180 model only)
- 12 ft (3.7 m) work lead with clamp
- Smith® Argon regulator/flow gauge with hose
- *TIG Welding for Dummies* book with content written by Miller
- Set-up and operation DVD
- Welding project blueprint for a machine cart/cylinder rack

TRUE BLUE®
3YR. WARRANTY

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

MADE IN **USA**
APPLETON, WI



Miller Electric Mfg. Co.
An Illinois Tool Works Company
1635 West Spencer Street
Appleton, WI 54914 USA

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

Web Site
www.MillerWelds.com



Specifications (Subject to change without notice.)

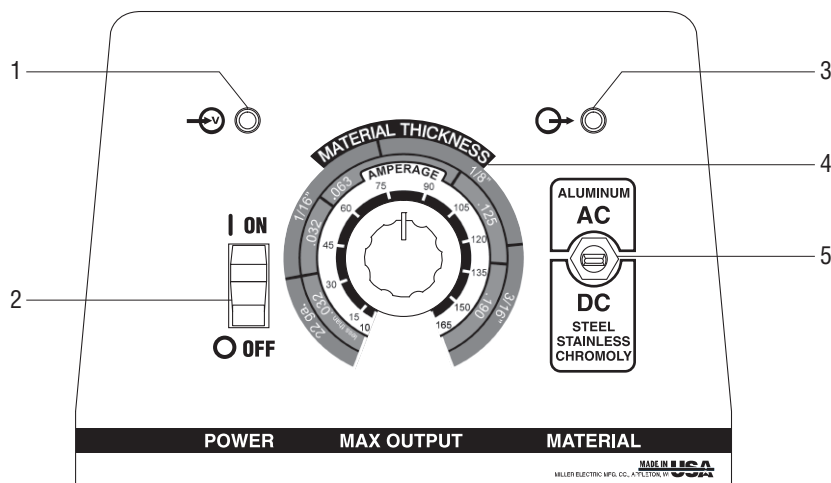


Model	Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
Diversion 165	230 VAC	10–165 A	60 A at 12.4 V, 100% Duty Cycle	8 A (.20)*	1.8 (.04)*	1.2 (.02)*	80	H: 17 in (433 mm) W: 9-7/8 in (251 mm) D: 23-7/8 in (608 mm)	50 lb (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.

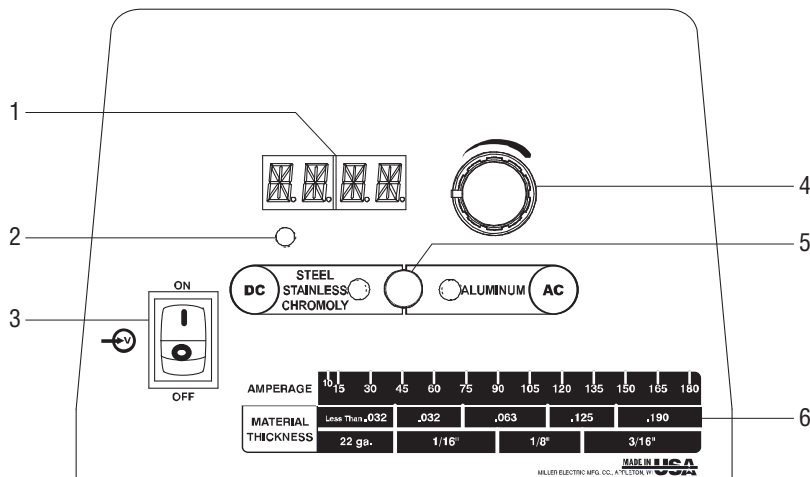
*While idling.

Diversion™ 165 Control Panel



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

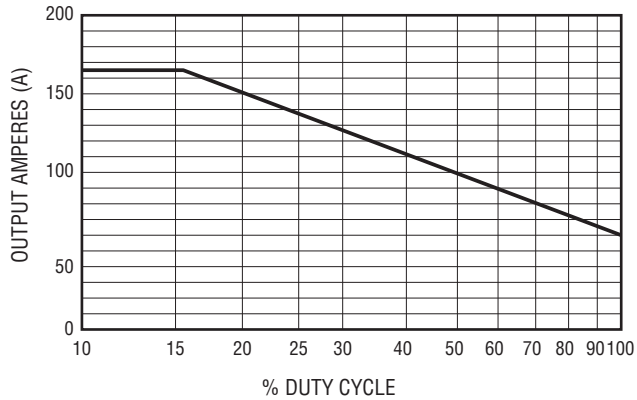
Diversion™ 180 Control Panel



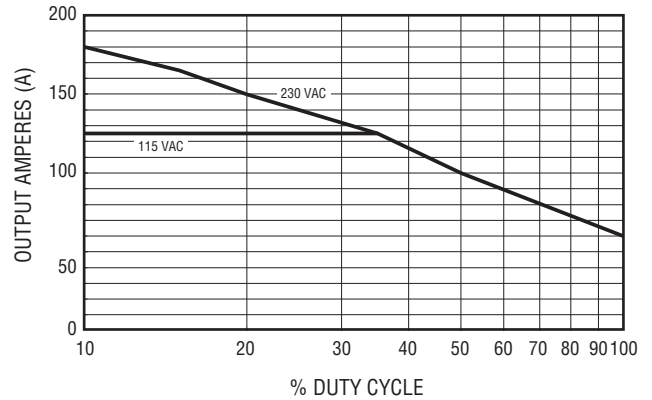
1. Digital Display
2. Output Indicator LED
3. Power Switch
4. Amperage Control
5. Material Selection Button
6. Material Thickness/Amperage Chart

Performance Data

DIVERSION 165 DUTY CYCLE CHART



DIVERSION 180 DUTY CYCLE CHART



Miller Accessories

MVP™ Adapter Plugs for Diversion 180

Order from Miller Service Parts.



#219 259
For Power Cable 5-20P (115 V/20 A). Optional, not included with machine.



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



#219 258
For Power Cable 6-50P (230 V/50 A). Included with machine.



RFCS-RJ45 #300 432
Remote foot control. Comes standard with Diversion 180 model. Must be ordered separately for Diversion 165 model.

Adapter Cord for RJ45 to 14-Pin #300 688
12-inch long 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 in (178 mm) diameter, maximum weight 100 lb (45 kg).



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



TIG Welding Gloves
#227 813 Small
#227 814 Medium
#227 815 Large
#227 816 X-Large
Designed to meet the specific requirements high-quality TIG welding demands. Made from soft grain goatskin. Sewn with Kevlar® thread.

Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
Diversion® 165	#907 005	Single-phase, 230 V, 50/60 Hz		
Diversion® 180	#907 460	Single-phase, 115 and 230 V, 50/60 Hz		
Available Through Service Parts — MVP Adapter Plugs for Diversion 180				
MVP™ 115 V 5-20P	#219 259	Used to connect power source to 5-20R receptacle (optional, not included with machine)		
MVP™ 115 V 5-15P	#219 261	Used to connect power source to 5-15R receptacle (included with machine)		
MVP™ 230 V 6-50P	#219 258	Used to connect power source to 6-50R receptacle (included with machine)		
Accessories				
RFCS-RJ45	#300 432	Remote foot control (included with Diversion 180, order separately for 165 model)		
Adapter Cord for RJ45 to 14-Pin	#300 688			
Protective Cover	#300 579			
Running Gear/Cylinder Rack	#770 187			
Small Running Gear/Cylinder Rack	#300 425			
TIG Welding Gloves		See page 3		
Torch Bodies				
125 A, Air-Cooled Standard	#9LGC			
125 A, Air-Cooled Pencil	#9PLGC			
125 A, Air-Cooled Flex	#9FXLGC			
150 A, Air-Cooled Flex	#17FXLGC			

Date:

Total Quoted Price:



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