

Deltaweld® Series

Issued Nov. 2009 • Index No. DC/16.2

**MIG Welding
Power Source** 

Quick Specs



Heavy Industrial Applications

Heavy Equipment Manufacturing
Truck and Trailer Manufacturing
Ship and Boat Building
Tank/Pressure Vessel Fabrication
Manufacture of Automotive Equipment
Railcar/Locomotive Fabrication and Repair
Furniture Manufacture
Structural Steel Fabrication
Sheet Metal Fabrication
Maintenance

Processes

MIG (GMAW)
Flux Cored (FCAW)
Air Carbon Arc (CAC-A)
Cutting and Gouging
Submerged Arc (SAW)

Input Power 302/402: 3-Phase Power
452/602: 3-Phase Power
652/852: 3-Phase Power

Rated Output 302/402: 300 A at 32 VDC, 100% Duty Cycle
452/602: 450 A at 38 VDC, 100% Duty Cycle
652/852: 650 A at 44 VDC, 100% Duty Cycle

Weight 302/402: 323 lb (147 kg)
452/602: 384 lb (174 kg)
652/852: 472 lb (214 kg)

The Power of Blue.®

Superior arc welding performance with MIG welding.

Internal digital voltage control (DVC) enables operator to preset weld voltage before striking an arc.

Two positive output terminals provide high/low stabilizer selection. Allows operator to optimize arc performance.

Line voltage compensation ensures consistent weld performance by keeping output power constant even if primary input power varies by $\pm 10\%$.

Simple control panel provides easy, efficient operation.

Digital voltmeter and ammeter are easy to read, even at 30 ft (9.2 m).

14-pin receptacle provides quick, direct connection to Miller 14-pin wire feeders and accessories.

115 V duplex receptacle provides 15 amps of auxiliary power.

Thermal overload protection light indicates power shutdown. Helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.



See option and package descriptions on page 5.

Remote on/off capabilities allow operator to turn power source on/off from a distance.

Remote voltage control allows operator to change voltage from feeder.

Power efficient for exceptional value and return on your investment.

Fan-On-Demand™ operates only when needed reducing noise, power consumption, and the amount of airborne contaminants pulled through the machine.

Enclosed circuit boards provide additional protection from contaminants resulting in longer service life.

PC board protection prevents the wire feeder power or other stray voltages (less than 115 VAC) from harming the power source PC board.

Power cord strain relief provided for your convenience at installation.



**Deltaweld® 452
MIGRunner®
Package shown**



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



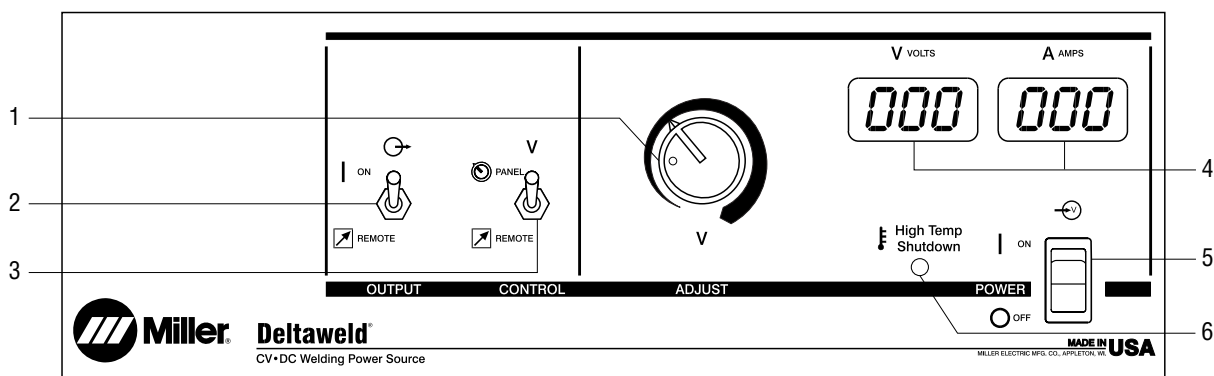
Rated Output	Voltage Range	Recommended Welding Range	Amps Input at Rated Output, 50/60 Hz										Max. Open-Circuit Voltage	Dimensions	Net Weight
300 A at 32 VDC, 100% Duty Cycle	10–32 V	15–32 V	200 V	230 V	380 V	400 V	440 V	460 V	575 V	KVA	KW		44 VDC	H: 30 in (762 mm) including lift eye W: 23 in (585 mm) D: 30-1/2 in (775 mm) including strain relief	323 lb (147 kg)
			48	42	27	25	23	21	17	16.9	12.9				

Note: For input conductor and fuse size information consult the Owner's Manual.

 Certified to both the Canadian and U.S. Standards for welding equipment.

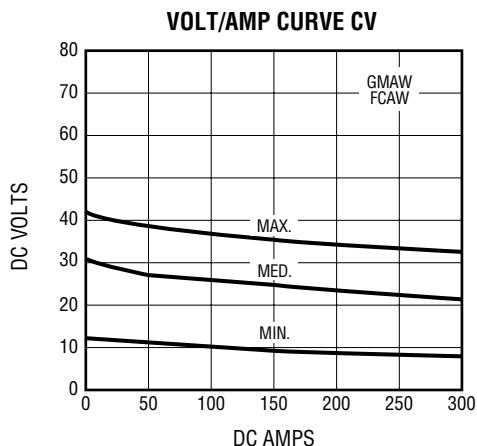
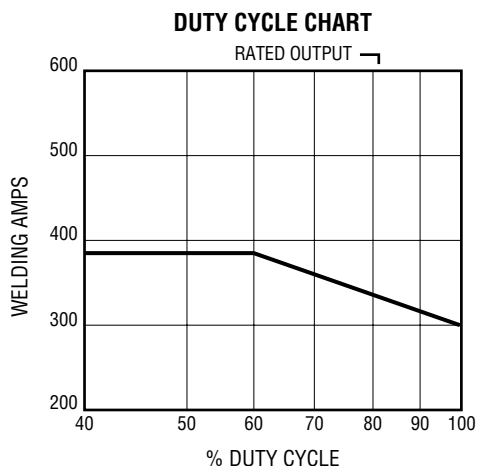
 50 Hz models with CE Specifications are manufactured according to the Standards IEC-974-1 and EN-60974-1.

Control Panel



1. Voltage Adjustment Control
2. Output Switch
3. Remote Voltage Control Switch
4. Digital Meters
5. Power Switch with Indicator Light
6. High Temperature Shutdown Light

Performance Data



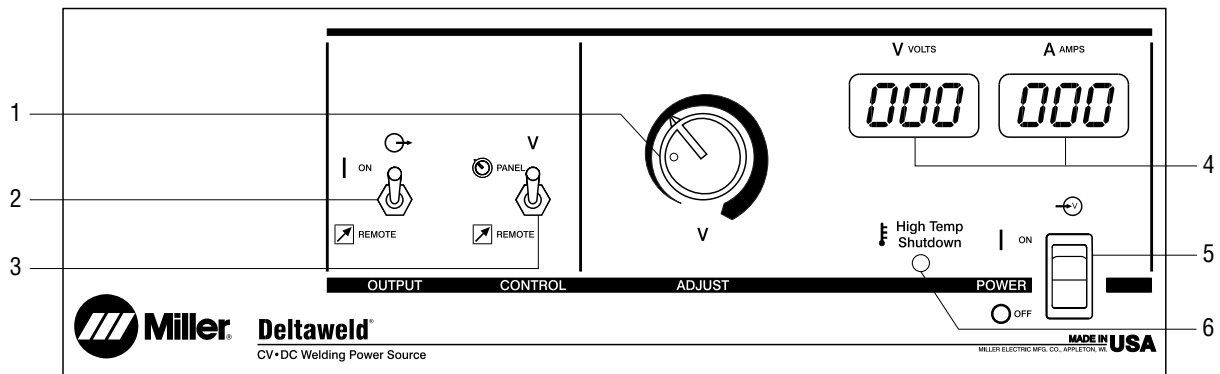
Rated Output	Voltage Range	Recommended Welding Range	Amps Input at Rated Output, 50/60 Hz 200 V 230 V 380 V 400 V 440 V 460 V 575 V KVA KW										Max. Open-Circuit Voltage	Dimensions	Net Weight
450 A at 38 VDC, 100% Duty Cycle	10–38 V	15–38 V	72	63	39	37	33	32	25	25.1	21.1		48 VDC	H: 30 in (762 mm) including lift eye W: 23 in (585 mm) D: 38 in (966 mm) including strain relief	384 lb (174 kg)

Note: For input conductor and fuse size information consult the Owner's Manual.

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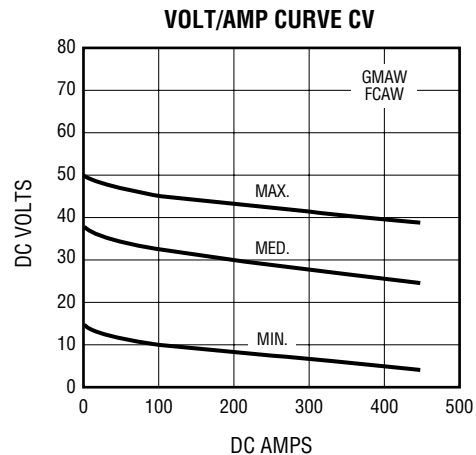
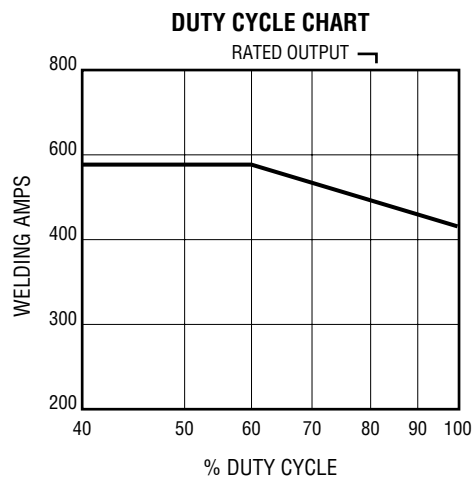
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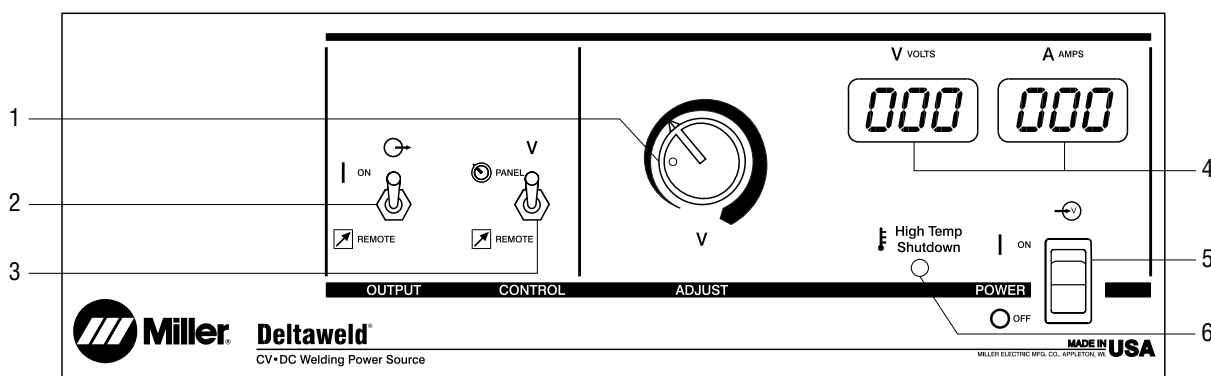
Rated Output	Voltage Range	Recommended Welding Range	Amps Input at Rated Output, 50/60 Hz								Max. Open-Circuit Voltage	Dimensions	Net Weight
			230 V	380 V	400 V	440 V	460 V	575 V	KVA	KW			
650 A at 44 VDC, 100% Duty Cycle	10–44 V	15–44 V	96	58	54	50	48	38	38.2	34.2	54 VDC	H: 30 in (762 mm) including lift eye W: 23 in (585 mm) D: 38 in (966 mm) including strain relief	472 lb (214 kg)

Note: For input conductor and fuse size information consult the Owner's Manual.

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