

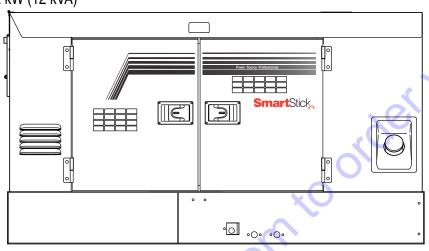


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## **WhisperWeld**<sup>™</sup>

DC Rated Output — 500 Amps AC Max. Output — 14 kW (14 kVA) AC Rated Output — 12 kW (12 kVA)



## STANDARD FEATURES

- Heavy duty, 4-cycle, direct injection, crankcase vent heater, diesel engine provides maximum reliability.
- EPA emissions certified Tier 4 Final emissions compliant.
- Single-Side Maintenance Design Quick, direct access to all filters. External fluid drain extensions allow fast, easy service.
- Electronic governor system maintains frequency to ± 0.25%
- Sound attenuated, weather resistant, compact steel housing provides operation at 65dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- E-coat and powder coat paint provides durability and weather protection.
- Internal fuel tank with digital fuel gauge.
- Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class F insulation systems.
- Open delta alternator design provides virtually unlimited excitation for maximum motor starting capability.
- Automatic voltage regulator (AVR) provides precise regulation.
- Simultaneous AC and DC power.
- Multi-process welding SMAW, FCAW, GMAW, GTAW and ACAC.

- Independent control of CC/CV selection on single and dual welder outputs.
- Smart Stick function automatically shuts the engine down during periods of no load. The operator only needs to tap the welding rod to the grounded work for the engine to restart.
- E-mode improves fuel efficiency by allowing one operator to weld up to 280 amps or two operators up to 180 amps.
- 14-pin wire feeder connector(s).
- Arc Force control allows the operator to fine tune DC current during low voltage welding conditions which helps in preventing electrodes from sticking during short arc length welding.
- Dual operator output ability.
- Fully-covered power panel Single phase receptacles allow fast and convenient hookup for most applications.
- Complete generator instrumentation Includes a 2-pole circuit breaker, AC voltmeter, hour meter, idle control switch, warning lamp display, and ignition switch.
- Automatic safety shutdown system monitors low oil pressure, high water temperature and battery charge via warning lamp display module.
- Full panel GFCI protection OSHA and NEC compliant.



### SPECIFICATIONS

Generator Specifications		
Design	Revolving field, self-ventilated brushless, drip-proof, single bearing	
Armature Connection	Series	
Phase	Single Phase (3-wire)	
Max. Output	14 kW (14 kVA)	
Rated Output	12 kW (12 kVA)	
Rated Voltage	120, 240 V	
Power Factor	1	
Voltage Regulation (No load to full load)	120V ±5% / 240V ±1.5%	
Generator RPM	1800	
Frequency	60 Hz	
No. of Poles	4	
Winding Pitch	2/3	
No. of Leads	4	
Frequency Regulation: No Load to Full Load	3 - 5% of mean value for constant loads from no load to full load.	
Frequency Regulation: Steady State	±0.25% of mean value for constant loads from no load to full load.	
Insulation	Class F	
Sound Level dB(A) Full load at 23 feet	65	
Engine Specifications		
Make / Model	lsuzu / 4LE2T	
Environieme	EPA Tier 4 Final Certified	
Emissions	EPA Tier 4 Final Certified	
Starting System	EPA Tier 4 Final Certified Electric	
Starting System Design	Electric 4-cycle, water cooled, direct injection, turbocharged, EGR	
Starting System	Electric 4-cycle, water cooled, direct injection,	
Starting System Design Displacement	Electric 4-cycle, water cooled, direct injection, turbocharged, EGR 133.0 in <sup>3</sup> (2179 cc) 4	
Starting System Design Displacement No. cylinders Bore x Stroke	Electric 4-cycle, water cooled, direct injection, turbocharged, EGR 133.0 in <sup>3</sup> (2179 cc) 4 3.34 x 3.77 in. (85 x 96 mm)	
Starting System Design Displacement No. cylinders Bore x Stroke Rated Engine Power Output	Electric 4-cycle, water cooled, direct injection, turbocharged, EGR 133.0 in <sup>3</sup> (2179 cc) 4 3.34 x 3.77 in. (85 x 96 mm) 40.2 hp (30.0 kW)	
Starting System Design Displacement No. cylinders Bore x Stroke Rated Engine Power Output Engine Speed	Electric 4-cycle, water cooled, direct injection, turbocharged, EGR 133.0 in <sup>3</sup> (2179 cc) 4 3.34 x 3.77 in. (85 x 96 mm) 40.2 hp (30.0 kW) 1800 rpm	
Starting System Design Displacement No. cylinders Bore x Stroke Rated Engine Power Output Engine Speed Oil Capacity	Electric 4-cycle, water cooled, direct injection, turbocharged, EGR 133.0 in <sup>3</sup> (2179 cc) 4 3.34 x 3.77 in. (85 x 96 mm) 40.2 hp (30.0 kW) 1800 rpm 2.75 gallons (10.4 liters)	
Starting System Design Displacement No. cylinders Bore x Stroke Rated Engine Power Output Engine Speed	Electric 4-cycle, water cooled, direct injection, turbocharged, EGR 133.0 in <sup>3</sup> (2179 cc) 4 3.34 x 3.77 in. (85 x 96 mm) 40.2 hp (30.0 kW) 1800 rpm	

Fuel System			
Recommended Fuel	ASTM-D975-No.1 & No.2-D*		
Fuel Tank Capacity 🔍	17.7 gallons (67 liters)		
Fuel Consumption**	gph	lph	
At 450A load	1.59	6.01	
At 358A load	1.15	4.35	
At 225A load	0.84	3.17	
At 113A load	0.60	2.27	
* - Use ultra-low sulfur diesel fuel. ** - DC Welding Current.			

Amperage (AC)				
Rated Voltage	Amps			
120 Volt	50 x 2 Continuous			
240 Volt	50 Continuous			

Welding Output (DC)	Constant Voltage (CV)	Constant Current (CC)		
Single Operation				
Rated Output (kW)	16.4	17.1		
Rated Current (Amps)	450	450		
Rated Voltage***	36.5	38.0		
Voltage Range	14 ~ 40	N/A		
Current Range	N/A	30 ~ 500		
Rated Duty Cycle	100% 💊	100%		
	Dual Operation 🥒			
Rated Output (kW)	6.6	7.5		
Rated Current (Amps)	250 x 2	250 x 2		
Rated Voltage***	26.5	30.0		
Voltage Range	14 ~ 29	N/A		
Current Range	N/A	30 ~ 280		
Rated Duty Cycle	100%	100%		
*** - Rated voltage at 100% duty cycle.				

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e Mode Selector Switch	Single		Dual	
C	Low (1200 rpm)	High (1800 rpm)	Low (1200 rpm)	High (1800 rpm)
LOW	N/L, 30-280A	_	N/L, A+B Total 30-180A	-
HIGH/ LOW	N/L	30-500A	N/L	A+B Total 30-280A
HIGH	_	N/L, 30-500A	-	N/L, A+B Total 30-280A

$\searrow$	Single		Dual	
	Low	High	Low	High
	(1200 rpm)	(1800 rpm)	(1200 rpm)	(1800 rpm)
Current Range	30-280A	30-500A	30-180A	30-280A
Electrode	ø3/32"	ø3/32"	ø3/32"	ø3/32"
Size	to ø3/16"	to ø5/16"	to ø3/16"	to ø3/16"

## WARRANTY\*

#### Isuzu Engine\*\*

12 months from date of purchase with unlimited hours or 36 months from date of purchase with 3,000 hours (whichever occurs first).

#### Welder

24 months from date of purchase or 2,000 hours (whichever occurs first).

#### Trailer

12 months excluding normal wear items.

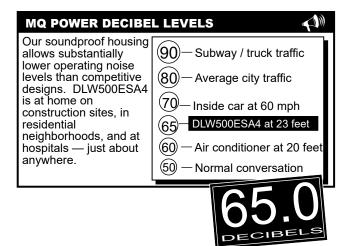
\*Refer to the express written, one-year limited warranty sheet for additional information.

\*\*Refer to Isuzu Diesel Engine Limited Warranty for details.

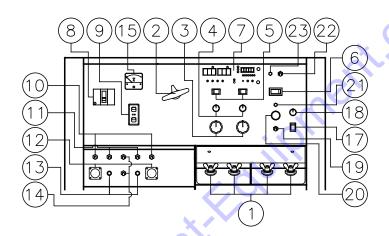
#### NOTICE

Specifications sheet is subject to change and is not intended for use in installation design.





## WELDER CONTROL PANEL



- 1. DC Welding Output Terminal
- 2. Single Dual Selector Switch
- 3. Current/Voltage Regulator
- 4. Welding Regulator
- 5. Welding Mode Selector Switch (CC/CV) 14. Polarity Switch
- 6. E Mode Selector Switch
- 7. Digital Panel:
- DC Weld Meter
- Idle Stop Monitor
- Hour Meter
- Fuel Meter
- Warning Lamp
- 8. AC Circuit Breaker
- 9. GFCI Sensing Module

- 10. Local/Feeder Switch
- 11. Weld Output Switch
- 12. Wire Feeder Socket (14p)
- 13. AC Circuit Protector
- 15. AC Voltmeter
- 16. Ground Terminal (for bonnet)
- 17. Idle Stop Switch
- 18. Time Regulator
- 19. Starter Switch
- 20. Engine Start Button
- 21. Operation Lamp
- 22. Engine Diagnostic Switch
- 23. Engine Diagnostic Lamp

## **OPTIONAL WELDER FEATURES**

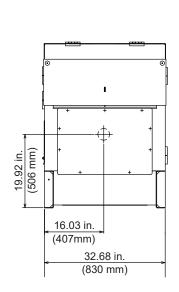
- Electrode and Work Clamp Welding Cable superior flexibility and durability.
- Oil Pan Heater for easy starting in cold weather climates.
- Trailer Mounted Package Heavy duty highway legal trailer with single axle or tandem axle configurations.

## **OPTIONAL TRAILER FEATURES**

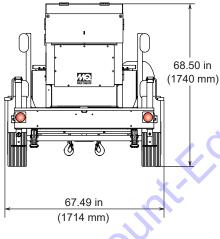
- Lockable Trailer Storage Box ideal for securing welding cable, tools and supplies (available for the TRLR502 series only).
- Cable Carriers Holds two 100 ft. lengths of 2/0 cable per side of trailer.
- Coupler 2" ball, 2 5/16" ball and 3" pintle.
- Spare Tire with lockable mounting bracket (available for the TRLR502 series only).

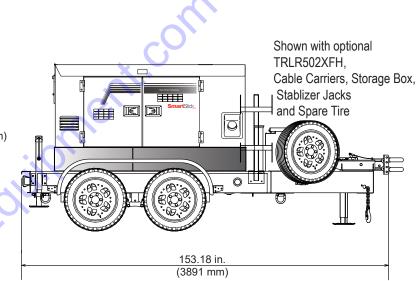


## UNIT ONLY DIMENSIONS









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80.13 in.

(2035.30 mm)

E

16.94 in.

(430 mm)

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artStick

NOTE: Contact Multiquip for TRLR501XFH drawing.

DLW500ESA4 Weights*		DLW500ESA4 and TRLR502X	F Weights*
Dry Weight	1,960 lbs. (890 kg)	Dry Weight (with TRLR502XF)	3,571 lbs. (1,620 kg)
Wet Weight	2,148 lbs. (975 kg)	Wet Weight (with TRLR502XF)	4,327 lbs. (1,962 kg)
Max. Lifting Point Capacity	3,030 lbs. (1,374 kg)		

Weights do not include options.

Welder can be placed on MQ Power Models TRLR501XF (E/H) and TRLR502XF (E/H) Trailers.

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parts

44.49 in. (1130 mm)

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