



G40WMI-2A-T4i

Mobile Generators

Key Features

- Manufactured in Statesville, North Carolina, USA.
- Heavy duty generator system designed for prime power operation in rental, construction and special events applications.
- Generator is CSA certified for electrical equipment per C22.2, No. 14.

Skidbase and Enclosure

- Package foundation is a heavy duty, oilfield-ready skidbase designed with minimum 110% environmental containment to prevent any leakage of fuel, oil, or coolant.
- Optimized enclosure design combines low noise levels with small footprint and full load performance capability in high ambient temperatures.
- The enclosure is coated with a 13 stage paint process including E-coat primer for superior corrosion resistance and a high gloss powder paint for long life.
- Wide opening side access doors are hinged, providing easy access and are equipped with recessed, pad-lockable handles.
- Package is equipped with a center-point lifting eye for safe, well-balanced hoisting, designed with a 5 x safety factor for the weight of a fully fueled unit with running gear.

Engine and Cooling System

- Industrial, heavy-duty diesel engine is emissions certified to current EPA and CARB requirements and provides optimum mix of performance and fuel economy.
- Oversized cooling system rated for high ambient temperature (minimum 40°C/104°F) operation without de-rating.
- The engine generator assembly is mounted on fail-safe vibration isolators.



- Coolant and oil drains are piped to bulkhead fittings mounted on the enclosure and all filters and maintenance points are easily accessed for safe and easy servicing.
- Engines are globally supported by the engine OEM and Doosan Portable Power.

Generator

- Leroy Somer alternators feature AREP brushless excitation providing industry leading motor starting kVA and 300% overload capability.
- Class H insulation with upgraded environmental coating for ultimate resistance to high temperature and humidity.
- Three position Voltage Selector Switch (VSS) to easily configure the units for operation at most common voltages.

Control System

- Operator-preferred analog gauges provide at-a-glance

Voltage / Frequency	P.F.	Armature Connection	Rating	Amps	kW	kVA
480V-3Ø-60Hz	0.8	Series Wye	Prime	42	28	35
			Standby	46	31	39
240V-3Ø-60Hz	0.8	Parallel Wye	Prime	84	28	35
			Standby	92	31	39
208V-3Ø-60Hz	0.8	Parallel Wye	Prime	97	28	35
			Standby	107	31	39
240V-1Ø-60Hz	1.0	Series Wye (4-wire)	Prime	39	28	28
			Standby	43	31	31
240V-1Ø-60Hz	1.0	Zig-Zag	Prime	89	21	21
			Standby	98	23	23
120V-1Ø-60Hz	1.0	Parallel Wye (4-wire)	Prime	78	28	28
			Standby	86	31	31
120V-1Ø-60Hz	1.0	Zig-Zag	Prime	89 × 2	21	21
			Standby	98 × 2	23	23

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monitoring of vital engine and generator parameters.

- Solid state engine control module provides convenient, microprocessor-controlled startup at the push of a button and protects the generator system from an array of faults while providing the operator with indication of any faults on the LED display.
- Standard remote Auto Start / Stop capability via two wire, closed contact logic, allows for connection to automatic transfer switchgear and other remote starting devices.
- Industry exclusive Voltage Selector Switch (VSS) protection feature prevents switching the VSS while generator is operating.
- Battery disconnect switch is mounted inside the enclosure.

Power Connections

- All controls and connection points are grouped at the rear of the unit for safety and operator convenience.
- Power cables are connected at an oversized five lug (L1 L2 L3 N PE) terminal board capable of accepting bare end cable or terminated cables.
- Convenience receptacle panel includes individual branch circuit breakers.

Fuel System

- Single fuel tank sized for 24 hour runtime is mounted within the skid base, providing double wall protection.
- Fuel tank mounted low in frame and centered to ensure balanced lifting and low center of gravity.
- The fuel filler is located within the containment basin, minimizing possible spillage.
- Standard Racor-style fuel / water separator and fine micron

secondary fuel filter keep contaminants out of the system and increase reliability.

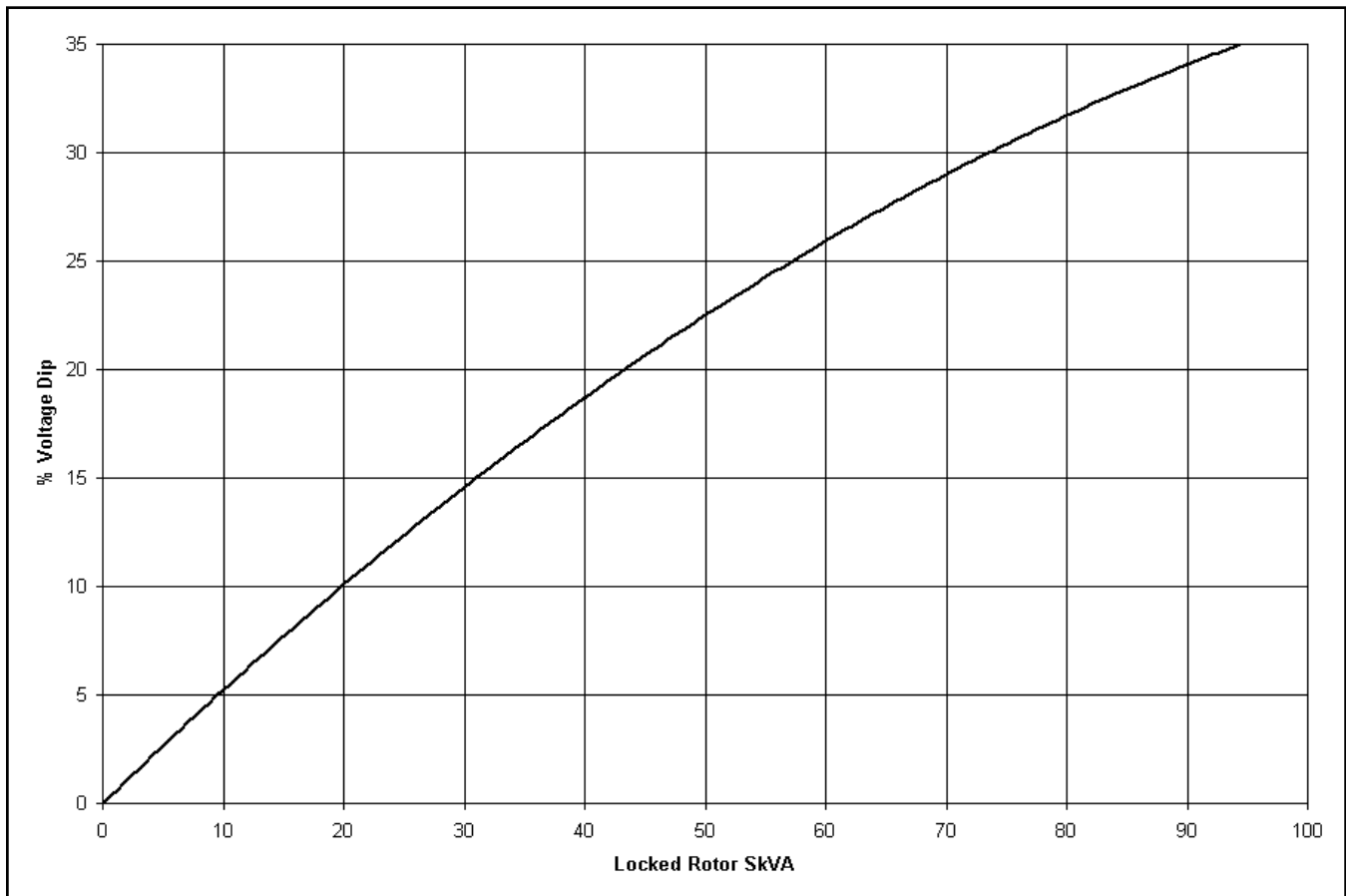
- The containment system features a three-inch drain plug for easy cleaning, and the fuel tank has a drain plug mounted behind the containment plug.
- Leak-proof fuel vents eliminate the potential for fuel purge during out-of-level conditions during transport and load / unload.
- Low fuel shutdown ensures the engines will not lose prime if they run out of fuel.

Running Gear

- Integrated running gear system mounts directly to generator skidbase providing an industry-best low center of gravity for safe, stable towing, on-road or off-road.
- Single axle torsion suspension with E-Z-Lube hub assemblies and choice of electric or hydraulic surge brakes.
- All models feature high quality, grommet-mount lighting and meet Federal Motor Vehicle Safety Standards for lighting and conspicuity.
- Trailer-to-vehicle connector is a 6-pole round plug with a high quality, jacketed wiring harness.
- All units are equipped with a 3-inch pintle eye, wheel chocks and a high quality, heavy-duty jack stand.

Warranty

- All models are covered by a comprehensive limited warranty:
- Package: 1 year / 2000 hours
- Mitsubishi Engine: 2 years / 4000 hours
- Leroy Somer Alternator: 2 years / 4000 hours





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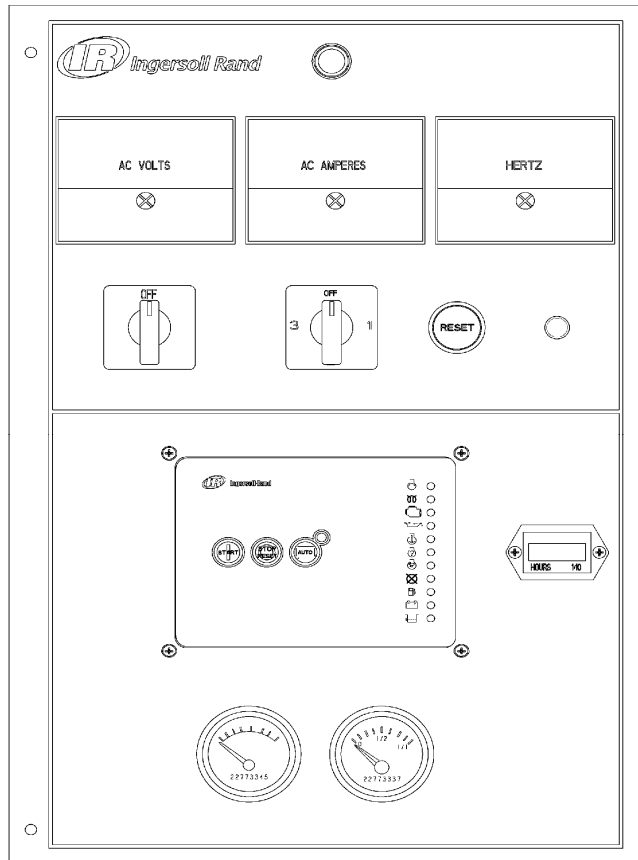
Engine Data		
Engine Manufacturer	Mitsubishi	
Model Number	S4S-Y362IR	
Prime Output @ Rated Speed	42 HP	31.3 kWm
Standby Output @ Rated Speed	45 HP	33.6 kWm
Engine Type	Inline 4-cycle	
Engine Control	Mechanical	
Emissions Certification	EPA Tier 4i	
Number of Cylinders	4	
Aspiration	Natural	
Bore x Stroke	3.7 x 4.7 in	94 x 120 mm
Displacement	203 in ³	3.33 L
Compression Ratio	22 : 1	
Governor Type	Mechanical	
Speed Regulation Accuracy	+ / - 2.5% Steady State	
Single Step Load Acceptance	100%	
Cooling System	50% Glycol / 50% Water	
Charging Alternator Output	50 A	
DC System Voltage	12 V	
Battery Output	700 CCA	

Fluid Capacities		Gal	L
Oil Sump Capacity		2.64	10.0
Cooling System Capacity		4.0	15.1
Usable Fuel Cell Capacity		46.7	176.8
Fuel Consumption	Gal / h	L / h	Runtime
@ 25% Load	0.71	2.69	65.8
@ 50% Load	1.33	5.03	35.1
@ 75% Load	1.91	7.23	24.5
@ 100% Load	2.56	9.69	18.2

Alternator Data	
Alternator Manufacturer	Leroy Somer
Alternator Model	LSA 422 L9
Alternator Type	Four Pole Revolving Field
Number of Leads	12
Insulation Class	H
Frequency	60 Hz
Available Voltages—3Ø	208 / 240 / 416 / 480 V
Available Voltages—1Ø	120 / 139 / 416 / 480 V
Voltage Connection Method	3-Position Selector Switch
Excitation Method	Brushless with AREP
Voltage Regulator Model	R438
Voltage Regulation Accuracy	+ / - 5% Steady State
Total Harmonic Distortion (THD)	<5% @ No Load
Telephone Influence Factor (TIF)	<50

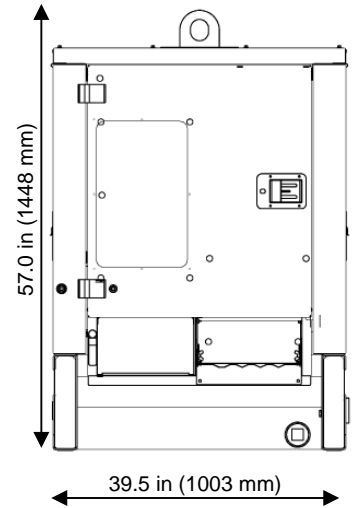
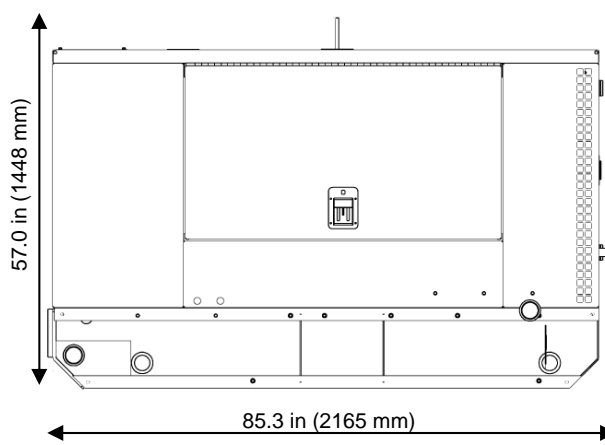
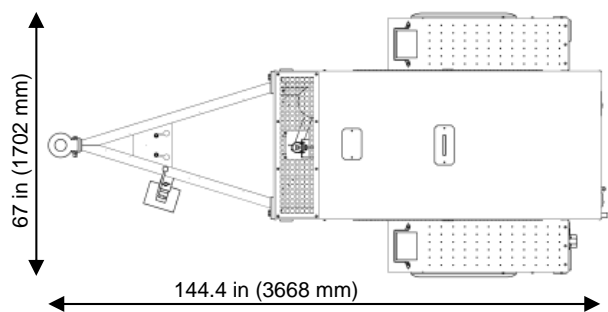
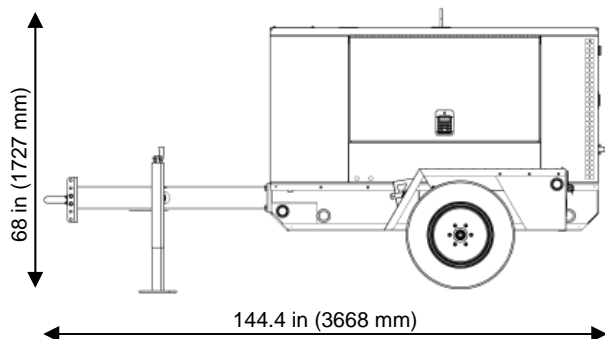
Power Connections		Qty
20A—125V GFCI Duplex (NEMA 5-20R)		2
50A—125/250V Temp Power (CS6369)		2
Terminal Board Maximum Cable Size (Bare Wire)	350 MCM	
Terminal Board Maximum Cable Size (Lugged)	350 MCM	

Reference Conditions		
Rated Ambient Temperature	10°-104°F	-12°-40°C
Minimum Starting Temperature		
Minimum Starting Temperature		
Rated Altitude		
Temperature De-rate Factor		
Altitude De-rate Factor		



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Running Gear	To 49CFR571 requirements	
Configuration	Single axle	
Suspension	Torsion bar	
Standard Brake System Configuration	Electric (hydraulic surge brakes optional)	
Tires	ST205/75D15	
Wheels	15" x 6" (381 mm x 152 mm), 6 lug on 5.5" (140 mm) bolt circle	
Lighting and Reflectors	Meets FMVSS 571.108 requirements	
Electrical Connection to Towing Vehicle	Six pole round plug	
Standard Coupling Connection	3" (76 mm) Pintle eye (2" (51 mm) or 2-5/16" (59 mm) ball coupler optional)	
Hitch Height		
Safety Chains	2 x 5/16" (8 mm) Chains with slip hooks and safety latches	
Jack Stand Configuration	5,000lb (2,268 kg) Capacity, top wind with sand shoe, trunion mounted	
Weights & Dimensions (w/ Running Gear)		
Length	144.4 in	3,668 mm
Width	67.0 in	1,702 mm
Height	68.0 in	1,727 mm
Weight (Shipping)	3,078 lb	1,396 kg
Weight (Ready to Run)	3,508 lb	1,591 kg
Weights & Dimensions (Less Running Gear)		
Length	85.3 in	2,165 mm
Width	39.5 in	1,003 mm
Height	57.0 in	1,448 mm
Weight (Shipping)	2,501 lb	1,134 kg
Weight (Ready to Run)	2,931 lb	1,329 kg
Sound Level @ 23ft (7m), 100% Load	66 dB(A)	



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