G290WCU-3C-T3

Mobile Generators

600V

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 package 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 requirements and provides optimum mix of performance and fuel economy.
- Electronically controlled engine provides isochronous frequency control and advanced diagnostic monitoring and protection.
- Oversized cooling system rated for high ambient temperature (minimum 40ºC/104ºF) 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

- Dedicated 600VAC-output 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.

Control System

- Operator-preferred analog gauges provide at-a-glance 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.
- Engine fault codes are displayed on an LCD display, providing operators and technicians with a numeric and text explanation of the fault code, minimizing the need for expensive hand-held code scanners.
- Standard remote Auto Start / Stop capability via two wire, closed contact logic, allows for connection to automatic transfer switchgear and other remote starting devices.
- 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.

Voltage	P.F.	Armature Connection	Rating	Amps	kW	kVA
600V-3Ø	0.8	Series Wye	Prime	279	232	290
			Standby	307	255	319

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Fuel System

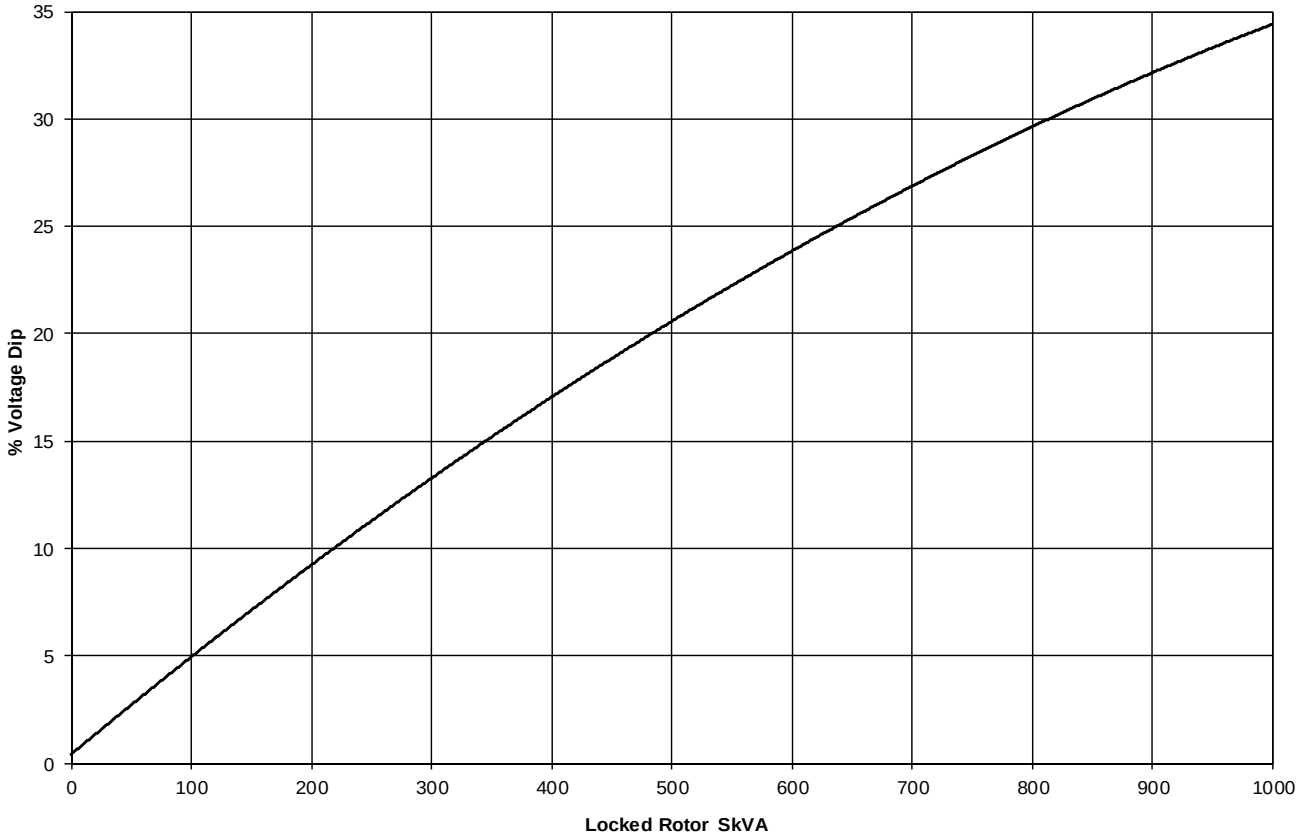
- Single fuel tank sized for 24 hour runtime is mounted within the skid base, providing double wall protection.
- Fuel tank mounted low in frame and centered to ensure balanced lifting and low center of gravity.
- The fuel filler is located within the containment basin, minimizing possible spillage.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

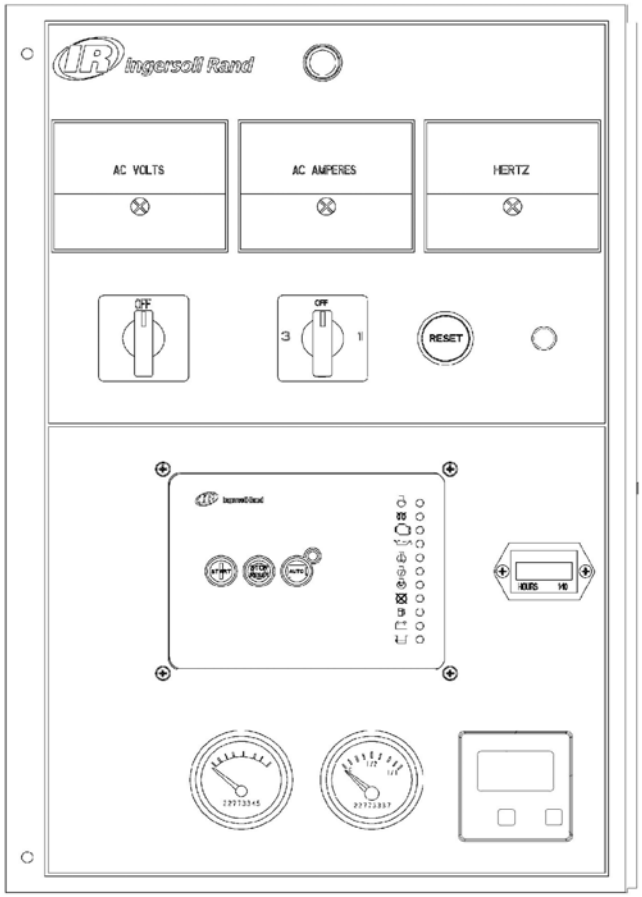
- Integrated running gear system mounts directly to generator skidbase providing an industry-best low center of gravity for safe, stable towing, on-road or off-road.
- Tandem axle torsion suspension with E-Z-Lube hub assemblies and electric brakes.
- All models feature high quality, grommet-mount lighting 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
- Cummins Engine: 1 year / unlimited hours
- Leroy Somer Alternator: 2 years / 4000 hours



Engine Data		
Engine Manufacturer	Cummins	
Model Number	QSL9-G3	
Prime Output @ Rated Speed	352 HP	262 kWm
Standby Output @ Rated Speed	399 HP	297 kWm
Engine Type	Inline 4-cycle	
Engine Control	ECU	
Emissions Certification	EPA Tier 3	
Number of Cylinders	6	
Aspiration	Turbocharged / Intercooled	
Bore × Stroke	4.5 × 5.7 in	114 × 145 mm
Displacement	543 in^3	8.8 L
Compression Ratio	16.8 : 1	
Governor Type	Electronic / Isochronous	
Speed Regulation Accuracy	+ / - 0.25% Steady State	
Single Step Load Acceptance	100%	
Cooling System	50% Glycol / 50% Water	
Charging Alternator Output	35 A	
DC System Voltage	24 V	
Battery Output	2 × 1000 CCA	



Fluid Capacities	Gal	L
Oil Sump Capacity	7.0	26.5
Cooling System Capacity	9.0	34.1
Usable Fuel Cell Capacity	386.0	1461.2

Fuel Consumption	Gal / h	L / h	Runtime
@ 25% Load	5.6	21.2	68.9
@ 50% Load	10.8	40.9	35.7
@ 75% Load	15.2	57.3	25.4
@ 100% Load	18.5	70.0	20.9

Alternator Data	
Alternator Manufacturer	Leroy Somer
Alternator Model	LSA 462 L9
Alternator Type	Four Pole Revolving Field
Number of Leads	6
Insulation Class	H
Frequency	60 Hz
Available Voltages—3Ø	600 V
Available Voltages—1Ø	346 V
Voltage Connection Method	Direct Hardwired
Excitation Method	Brushless with AREP
Voltage Regulator Model	R448
Voltage Regulation Accuracy	+ / - 0.5% Steady State
Total Harmonic Distortion (THD)	<5% @ No Load
Telephone Influence Factor (TIF)	<50

Power Connections		Qty
20A—125V GFCI Duplex (NEMA 5-20R)		N/A
50A—125/250V Temp Power (CS6369)		N/A
Terminal Board Maximum Cable Size (Bare Wire)	1000 MCM	
Terminal Board Maximum Cable Size (Lugged)	1000 MCM	

Reference Conditions		
Rated Ambient Temperature	10º-104ºF	-12º-40ºC
Minimum Starting Temperature (Standard)		10ºF (-12ºC)
Minimum Starting Temperature (w/ Cold Start Opt)		0ºF (-18ºC)
Rated Altitude		
Temperature De-rate Factor		
Altitude De-rate Factor		

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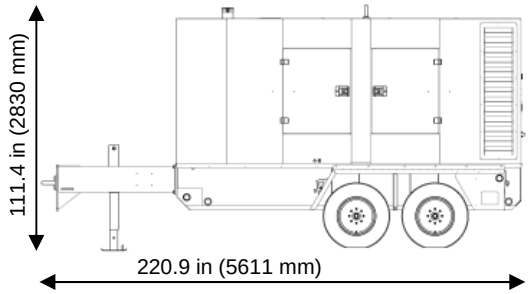
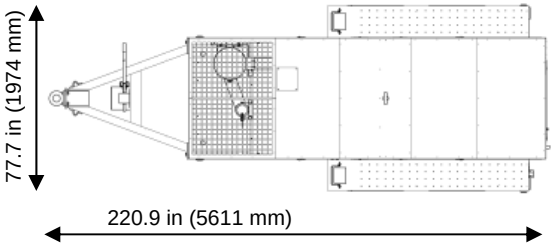
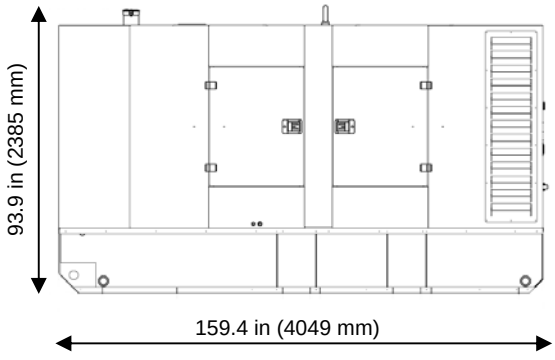
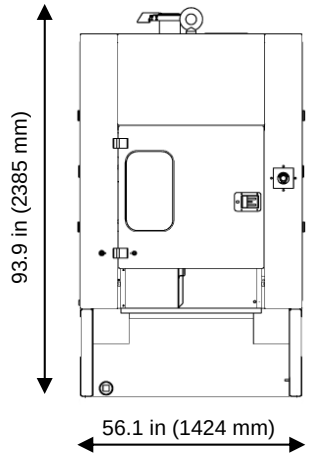
Running Gear	To 49CFR571 requirements	
Configuration	Tandem axle	
Suspension	Torsion bar	
Standard Brake System Configuration	Electric	
Tires	9.50-16.5 LT/E	
Wheels	16.5” × 6.75” (419 mm × 171 mm), 8 lug on 6.5” (165 mm) bolt circle	
Lighting and Reflectors	Meets FMVSS 571.108 requirements	
Electrical Connection to Towing Vehicle	Six pole round plug	
Standard Coupling Connection	3" (76 mm) Pintle eye	
Hitch Height	22-26.5-31-35.5 in	559-673-787-902 mm
Safety Chains	2 × 3/8” (10 mm) Chains with slip hooks and safety latches	
Jack Stand Configuration	10,000lb (4,536 kg) Capacity, top wind with sand shoe, fixed mount	
Weights & Dimensions (w/ Running Gear)		
Length	220.9 in	5,611 mm
Width	77.7 in	1,974 mm
Height	111.4 in	2,830 mm
Weight (Shipping)	8,998 lb	4,081 kg
Weight (Ready to Run)	11,957 lb	5,424 kg
Weights & Dimensions (Less Running Gear)		
Length	159.4 in	4,049 mm
Width	56.1 in	1,424 mm
Height	93.9 in	2,385 mm
Weight (Shipping)	7,588 lb	3,442 kg
Weight (Ready to Run)	10,547 lb	4,784 kg
Sound Level @ 23ft (7m), 100% Load	70 dB(A)	









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Due to continuous product improvement, specifications subject to change without notice.

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