

G570 PowerSource Generators

Voltage	P.F.	Armature Connection	Rating	Amps	kW	kVA
480 / 277 V - 3Ø 0.8	0.0	Corion M/wo	Prime	686	456	570
4007277 V - 30	0.8 Series Wye	Series wye	Standby	754	502	627
240 / 139 V - 3Ø 0.8	Decellel W/we	Prime	1371	456	570	
2407 139 V - 30	0.8	Parallel Wye	Standby	1508	502	627
208 / 120 V - 3Ø 0.8	0.0	Parallel Wye	Prime	1416	408	510
	0.0		Standby	1557	449	561

Features

Generator Set

- Heavy duty generator system designed for prime power operation in rental, construction and special events applications.
- Generator system features a heavy-duty, drag-able skid base, and can be easily equipped with an integrated running gear system for mobile applications.
- Generator is CSA certified for electrical equipment per C22.2, No. 14.

Engine

- Industrial, heavy-duty diesel engine is EPA emissions certified to current model year requirements.
- Electronically controlled engine provides isochronous frequency control and advanced diagnostic monitoring and protection.
- Oversized cooling system rated for high ambient operation.
- All filters and maintenance points are easily accessed enhancing serviceability.

Generator

- AREP brushless excitation provides powerful motor starting kVA and is isolated from harmonic-induced waveform distortion.
- Class H insulation for ultimate resistance to high temperature and humidity.
- Capable of supporting up to 300% overload for up to 10 seconds.
- R438 voltage regulator provides superior voltage stability and transient recovery.
- Single, sealed-for-life bearing ensures long maintenance-free performance.
- Alternator features buss bar reconnection capabilities to easily configure the unit for operation at most common voltages.



Control System

- Operator-preferred analog gauges provide at-aglance monitoring of vital engine and generator parameters (digital control system optional).
- 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.
- PowerSource features remote Auto Start / Stop capability via industry standard two wire, closed contact logic, allowing for connection to automatic transfer switchgear and other remote starting devices.

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 a five lug (L1 L2 L3 N PE) terminal board and accept bare end or terminated cables.

Fuel System and Environmental Containment

 Single wall steel fuel tank is mounted within the skid base, providing double wall protection and 110% environmental containment of all fluids.

PowerSource G570

- The fuel filler is lockable and is located within the containment basin, minimizing possible spillage.
- Standard fuel / water separator and fine micron fuel filter keep contaminates out of the system and increase reliability.

Enclosure

- The heavy duty enclosure provides weather protection of components and provides sound attenuation for use in noise sensitive areas.
- 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.
- The engine generator assembly is mounted on fail-safe vibration isolators.
- Wide opening side access doors are hinged, providing easy access and are equipped with recessed, pad-lockable handles.
- PowerSource units are equipped with a centerpoint lifting eye for safe, well-balanced hoisting.

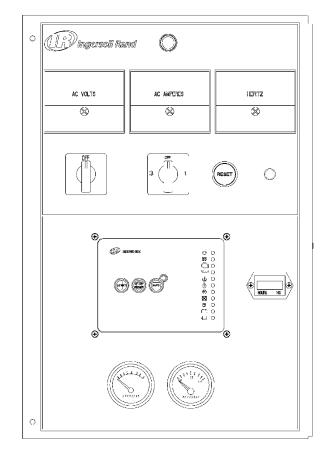
Warranty

- PowerSource is covered by a comprehensive limited warranty:
 - Package: 1 year / 2000 hours
 - Engine: 1 year / unlimited hours or 2 years / 2000 hours
 - Alternator: 2 years / 4000 hours
- Extended warranty options are available.

Power Connections		
Terminal Board Maximum Load Cable Size (Bare Wire Cable)	1000 MCM × 2	
Terminal Board Maximum Load Cable Size (Lugged Cable)	500MCM—1000MCM × 2	

Reference Conditions			
Maximum Ambient Temperature	104 °F	40 °C	
Maximum Relative Humidity	ve Humidity 100%		
Maximum Altitude	see d-rating chart		
Minimum Starting Temperature (Standard)	10 °F	-12 ⁰C	
Minimum Starting Temperature (w/ Cold Start Option)	-10 °F	-23 °C	

* For operation outside of these reference conditions, contact factory for de-rating instructions



Control Panel Features

- AC Voltmeter with phase selector switch
 - Range: 0—600 V, 2% Accuracy
- AC Ammeter with phase selector switch
- Range: 0—1600 A, 2% Accuracy
- AC Frequency meter
 - Range: 45—65 Hz, 3% Accuracy
- DC Voltmeter
 - Range: 18—32 V
- Fuel tank level gauge
 - Range: 0—1/2—1/1
- Runtime hour meter
- Range: 0—99999.9 h
- Fine voltage adjustment control (+/- 5%)
- Overcurrent relay reset
- Control panel lamp

Engine Control Module with Auto Start / Stop

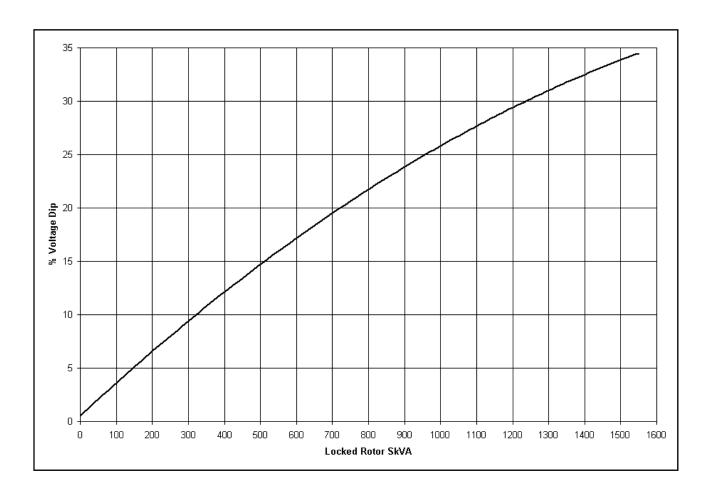
- Status Indications (Green)
- System On Preheat Cycle On
- Engine COM OK AutoStart Mode Active
- Shutdown Indications (Red)
- Low Oil Pressure High Coolant Temperature
- Engine Fault
 Overspeed
- Overcrank Low Fuel Level
- Warning Indications (Red)
- Low Battery Alarm High Containment Alarm

PowerSource G570

Engine Data			
Engine Manufacturer	Cummins		
Model Number	QSX15-G9		
Prime Output @ Rated Speed	680 hp	507 kW	
Standby Output @ Rated Speed	755 hp	563 kW	
Engine Type	Inline Four Cycle		
Engine Control	ECU		
Emissions Certification	EPA Tier II Non-road		
Number of Cylinders	6		
Aspiration	Turbocharged with charge a intercooling		
Bore × Stroke	5.4 × 6.6 in	137 × 169 mm	
Displacement	909 in ³	14.9 L	
Compression Ratio	17 : 1		
Governor Type	Electronic		
Speed Regulation Accuracy (Steady State)	+ / - 0.25%		
Single Step Load Acceptance	100%		
Cooling System	Water / Glycol		
Charging Alternator Output	35 A		
DC System Voltage	24 V		
Battery Output	2 × 1300 CCA		
Oil Sump Capacity	24 gal	91 L	
Cooling System Capacity	16.25 gal	61.5 L	
Fuel Cell Capacity (Usable Capacity - Level Operation)	574 gal	2173 L	

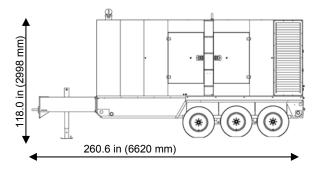
Fuel Consumption at Prime Power Rating	gal / h	L/h	Runtime
@ 25% Load	9.89	37.4	58
@ 50% Load	17.24	65.3	33.3
@ 75% Load	23.92	90.6	24
@ 100% Load	31.13	117.8	18.4

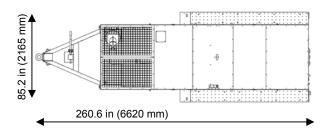
Alternator Data			
Alternator Manufacturer	Leroy Somer		
Alternator Model	LSA 472 S5		
Alternator Type	Four Pole, Revolving Field		
Number of Leads	12		
Insulation Class	Н		
Frequency	60 Hz		
Available Voltages - Three Phase	208 / 220 / 230 / 240 /416 / 440 /460 / 480 V		
Available Voltages - Single Phase	120 / 127 / 133 / 139 / 240 / 254 / 266 / 277 V		
Voltage Connection Method	Buss Bar Reconnectable		
Excitation Method	AREP		
Voltage Regulation Accuracy (Steady State)	+/-0.5%		
Total Harmonic Distortion (THD) @ No Load	< 2%		
Telephone Influence Factor (TIF)	< 50		

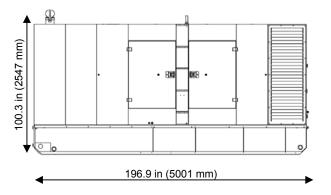


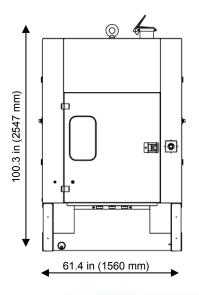
PowerSource G570

Running Gear				
Configuration	triple axle			
Suspension	leaf spring			
Standard Brake System Configuration	electric			
Tires	9.50-16.5LT/E			
Wheels	16.5 × 6.75 in (419 × 171 mm), 8 lug on 6.5 in (165 mm) bolt circle			
Lighting and Reflectors	meets 49CFR571 requirements			
Electrical Connection to Towing Vehicle	six pole round plug			
Standard Coupling Connection	3 in (76 mm) lunette eye			
Hitch Height	21.5 - 35 in × 4.5 in	546 - 889 mm × 113.4 mm		
Safety Chains	2 × 3/8 in (10 mm) chains with slip hooks and safety latches			
Jack Stand Configuration	10000 lb (4536 kg) capacity, top wind with drop foot and sand shoe, fixed mount			
Weights & Dimensions (w/ Running Gear)				
Length	260.9 in	6,626 mm		
Width	85.9 in	2,181 mm		
Height	119.8 in	3,042 mm		
Weight (Shipping)	14,170 lb	6,426 kg		
Weight (Ready to Run)	18,573 lb	8,423 kg		
Weights & Dimensions (Less Running Gear)				
Length	198.3 in	5,038 mm		
Width	63.9 in	1,624 mm		
Height	100.3 in	2,547 mm		
Weight (Shipping)	12,397 lb	5,622 kg		
Weight (Ready to Run)	16,800 lb	7,619 kg		
Sound Level @ 23ft (7m), 100% Load	76 dB(A)			









(877) IR BRAND • ingersoll Rand .com ©2007 Ingersoll-Rand Co. 570-00