



# GeneratorJoe®



Made in the USA!



Designed to hang beneath the chassis of the Mercedes Sprinter. This flexible unit will deliver 3000 watts of Prime Power in any application from trucks to motor coaches. Delivers maximum performance while using less than a quart of fuel per hour at full load.

## FEATURES:

- ◇ US EPA certified Tier 4 emissions & California CARB certified emissions
- ◇ Available in Single Phase only. 50 or 60 Hz.
- ◇ 1800 RPM Operation for Long life.
- ◇ Brushless 4 pole generator with automatic voltage Regulator.
- ◇ Main line set mounted commercial grade circuit breaker.
- ◇ Low Profile Radiator Cooled with Blower Fan, Fan Guards.
- ◇ Dry Type Air Cleaner Spin on Lube Oil Filter, Spin on Fuel & Oil Filters.
- ◇ Stainless Critical Exhaust Silencer with stainless steel exhaust flex connector.
- ◇ Remote Coolant fill tank

## Sergeant Series Model: GJSG-3

### Ratings Diesel

Single Phase Only

		60Hz	50 Hz
Standby:	kW	3.34	2.77
	kVA	3.34	2.77
Prime:	kW	3.00	2.49
	kVA	3.00	2.49

Generator	Voltage	PH	Hz	Standby Rating		Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
3000 120	120	1	60	3.34/3.34	27.8	3/3	25
3000 240	240	1	60	3.34/3.34	13.9	3/3	12.5

- ◇ 12VDC Staring Motor, DC Charging Rectifier.
- ◇ 12VDC Fuel Pump with Connection Points.
- ◇ Safety Shutdowns for High Water Temperature & Low Oil Pressure .
- ◇ Single Touch Start/Stop Switch with Condition Indicator Light .
- ◇ Convenient Single Side Service
- ◇ Corrosion Resistant Paint and Polyester Powder Coat
- ◇ Powder coated lightweight aluminum enclosure with sound attenuation.
- ◇ Heady duty dry type air cleaner.
- ◇ Spin on 2-micron fuel filter.
- ◇ Fuel / Water Separator standard.
- ◇ Factory Load Tested Prior to Shipment
- ◇ Convenient single side service
- ◇ 4 point mounting system with vibration isolators
- ◇ Customized to your specifications

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

STANDBY RATINGS: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271.

PRIME POWER RATINGS: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS5514, AS2789, and DIN 6271. For limited running time and base load ratings consult the factory. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

GENERAL GUIDELINES FOR DERATION: Altitude: Derate 0.5% per 100m (328 ft.) elevation above 1000m (3279 ft.) Temperature: Derate 1.0% per 10°C (18°F) temperature above 40°C (104°F).

## Engine Application Data

### ENGINE SPECIFICATIONS

ENGINE BRAND	Kubota
ENGINE MODEL	1105
TYPE	Horizontal, 4-Cycle, Liquid-Cooled, Diesel
NUMBER OF CYLINDERS	1
BORE & STROKE	<i>mm (in)</i> 77 x 70 (3.03 x 2.76)
TOTAL DISPLACEMENT	<i>L (in<sup>3</sup>)</i> 0.325 (19.83)
COMBUSTION TYPE	Indirect Injection Type (TVCS)
ASPIRATION	Naturally Aspirated
STARTING MOTOR	12V, 0.8kW

### GENERATOR SPECIFICATIONS

Output Voltage	120 VAC or 240 VAC Optional
POWER OUTPUT	3,000 Watts
AMPERAGE	66A @ 120VAC (33A @ 240VAC) Single Phase
FUEL CONSUMPTION	.22 GPH @ Full Load .10 GPH @ Half Load
WEIGHT	260 lbs



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## Control Panel



### STATE OF THE ART CONTROL

GeneratorJoe's advanced new PTG410 controller provides the ultimate control and protection. The controller provides manual and remote starting capability, as well as, available auto start on low battery. Automatic shutdowns and warnings help prevent damage in the event problem is encountered. In the unlikely event a shutdown occurs, the PTG410's J1939 compatibility, ability to display J1939 Diagnostic Trouble Codes, and 150 Event Log will make troubleshooting easy. The PTG410, additionally, provides metering and instrumentation for the engine and generator. Capable of displaying Oil Pressure, Engine

Temperature, Engine Hours, RPM, Battery Voltage, A/C Voltage and A/C Amperage; the PTG410 gives you the information you want with the press of a button. Furthermore, the PTG410 is UL Recognized and NFPA 110 compatible.

## AC Alternator Specifications

### STANDARDS

Newage industrial generators meet the requirements of BS EN 60034 and the relevant section of other international standards such as B55000, VDE 0530, NEMA MG1-32, 1EC34, CSA C22.2-100, A51359. Other standards and certifications can be considered on request.

### VOLTAGE REGULATORS

#### MX341 AVR

This sophisticated AVR is incorporated into the Stamford Permanent Magnet Generator (PMG) control system. The PMG provides power via the AVR to the main exciter, giving a source of constant excitation power independent of generator output. The main exciter output is then fed to the main rotor, through a full wave bridge, protected by a surge suppressor. The AVR has in-built protection against sustained over-excitation, caused by internal or external faults. This de-excites the machine after a minimum of 5 seconds. An engine relief load acceptance feature can enable full load to be applied to the generator in a single step. If three-phase sensing is required with the PMG system the MX321 AVR must be used. We recommend three-phase sensing for applications with greatly unbalanced or highly non-linear loads.

#### (Optional) MX321 AVR

The most sophisticated of all our AVRs combines all the features of the MX341 with, additionally, three-phase rms sensing, for improved regulation and performance. Over voltage protection is built-in and short circuit current level adjustments is an optional facility.

### WINDINGS & ELECTRICAL PERFORMANCE

All generator stators are wound to 2/3 pitch. This eliminates triplen (3rd, 9th, 15th ...) harmonics on the voltage waveform and is found to be the optimum design for trouble-free supply of non-linear loads. The 2/3 pitch design avoids excessive neutral currents sometimes seen with higher winding pitches, when in parallel with the mains. A frilly connected damper winding reduces oscillations during paralleling. This winding, with the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion.

### SHAFT

The generator rotor is dynamically balanced to better than B56861:Part 1 Grade 2.5 for minimum vibration in operation.

### INSULATION/IMPREGNATION

The insulation system is class H.

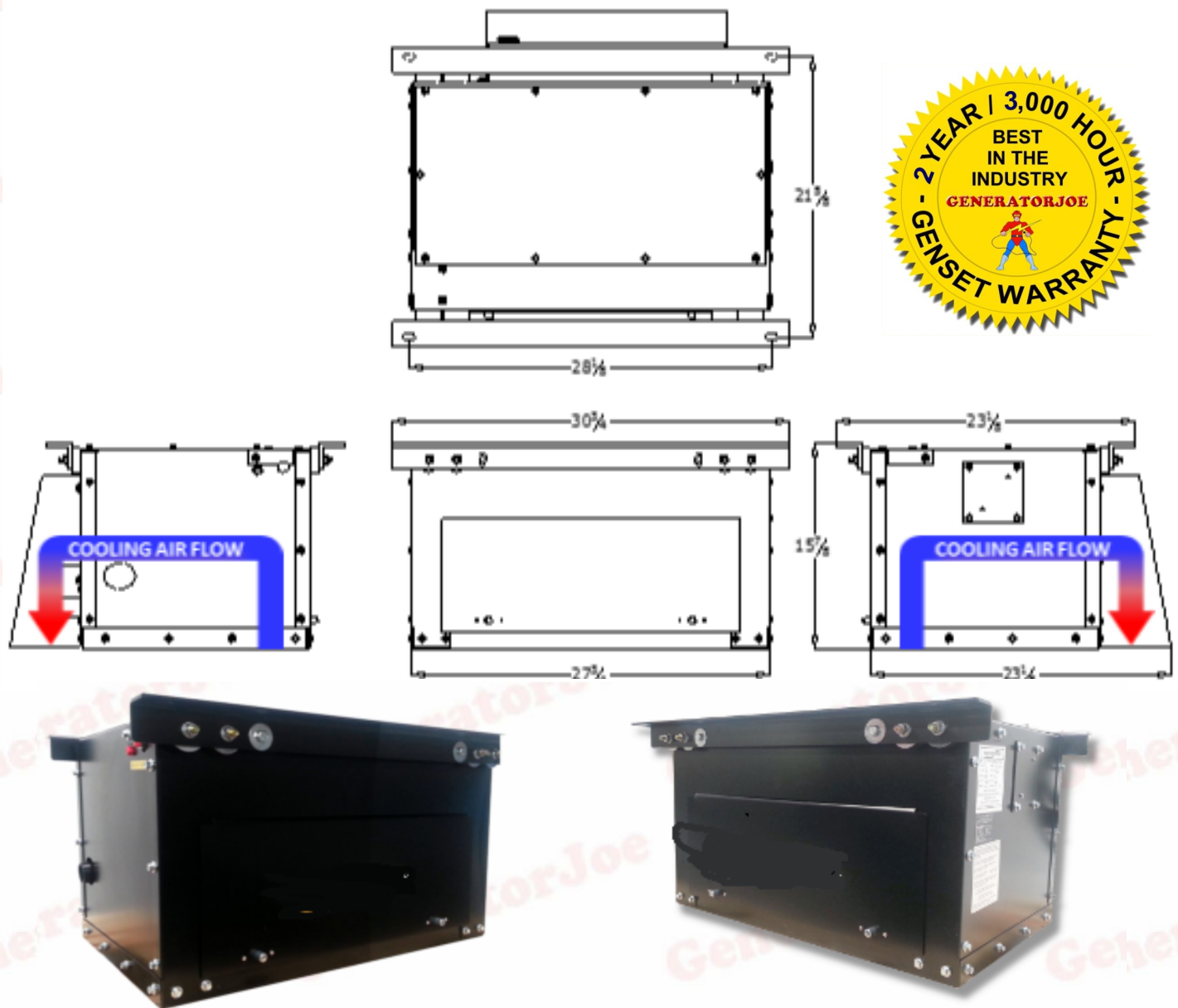
All wound components are impregnated with materials and processes designed specifically to provide the high build required for static windings and the high mechanical strength required for rotating components.

### QUALITY ASSURANCE

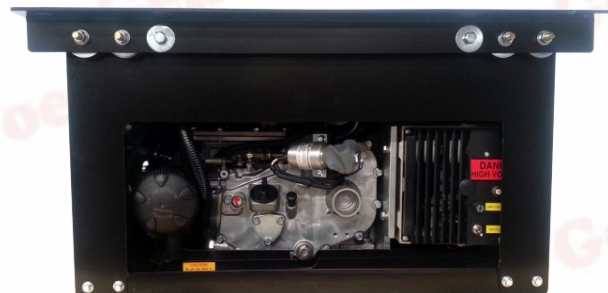
Generators are manufactured using production procedures having a quality assurance level to BS EN ISO 9001.



## Dimensions & Pictures



Designed to hang beneath the chassis of the Mercedes Sprinter. This flexible unit will deliver 3000 watts of prime power in any application. Use in trucks, motor homes or trailers. This single cylinder workhours delivers maximum performance while using less than a quart of fuel per hour at full load.



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# Standard Features and Optional Accessories

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- ◇ Powder coated lightweight aluminum enclosure with sound attenuation.
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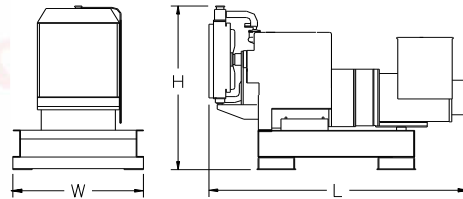
## Optional Accessories

- Single phase, 60 or 50 Hertz.
- Deluxe Generator Controls, Full Gauges, Auto Start, Safety Sensors
- Remote panel w/start, stop & hour meter
- Deluxe Remote Panel w/start, stop & hour Meter, Coolant Temp & Oil Pressure
- Remote Panel Wiring Harnesses
- Emergency Stop Mushroom Buttons & Wiring Harnesses
- Customized to Your Specifications

## Gross Weights and Dimensions

OVERALL SIZE, L x W x H, in.: 36.75 in. x 25 in. x 19 in.  
WEIGHT (WET): 424 lbs.

Note: Dim and weights reflect standard open unit with no options



Note: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.



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A small business owned by service a connected disabled veteran.

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