

# CG137-8 TA

## Gas Petroleum Engine 275 ekW Generator Unit

### FEATURES

#### **Advanced Digital Engine Management (ADEM)**

The ADEM system represents the next generation of engine management systems while reducing the number of mechanical components and easing troubleshooting. Features include: ·Air/Fuel ratio control (AFRC) · Electronic governing/speed control · Start/stop logic · Engine protection and monitoring.

#### **Propane Start System**

The propane start system allows the engine to run on propane as a secondary fuel source. The system allows for a seamless transition between the two fuels even at loaded conditions. It allows the unit to start with propane and run for the required time to initiate production. It will automatically switch once there is enough pressure at the natural gas inlet.

#### **Gas Train**

The uniquely designed gas train is equipped with a rugged gas coalescing filter that not only filters dry particulates but catches incoming liquids. Two pressure regulators protect the engine while maintaining a constant and stable flow and pressure. Two pressure relief valves for added safety. A liquid level switch that will shutdown the unit in the case of high accumulation of liquids in the coalescing filter. An automatic drain valve that allows for a constant yet controlled drain of liquids in the coalescer.

#### **Oil Supply Tank**

The auxiliary engine oil tank supplies the main engine oil tank increasing its capacity and prolonging oil life. The gravity feed system includes an oil level switch that monitors quantity and shuts the engine down in the case of low oil level.



#### **Exhaust System**

Specifically designed for the engine model, the exhaust system lowers emissions to fall beneath regulatory limits. The muffler was chosen to lower sound level while creating the least amount of back pressure.

#### **Cat® Product Link™ (Optional)**

Product link gets you accurate, timely and useful information about the location of your unit via cell or satellite.

#### **M2M Remote Monitoring (Optional)**

M2M offer a cloud-based service that allows remote monitoring of various parameters of the unit. The system will instantly alert in case of a malfunction or out-of-parameter scenario.

## SPECIFICATIONS

### ENGINE

Brake Horse Power	<b>400 bhp</b>	Compression Ratio	<b>10.25 :1</b>	Specific Output	<b>22.2 bhp/L</b>
Stroke	<b>6 in</b>	Number of Cylinders	<b>8</b>	Weight (Dry)	<b>6250 lb</b>
Bore	<b>5.4 in</b>	Cylinder Arrangement	<b>Vee</b>	Engine Speed	<b>1,800 rpm</b>
Displacement	<b>18 L</b>	Aspiration	<b>Turbocharged-Aftercooled</b>	Oil Change Interval	<b>750 hr</b>

### GENERATOR

Make	<b>Cat</b>	Power	<b>275 ekW</b>	Voltage Regulation	<b>&lt; 1/2%</b>
Model	<b>SR4B</b>	Voltage	<b>480 V</b>	Frequency	<b>60 Hz</b>

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Gas Petroleum Engine  
275 kW Generator Unit

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## ELECTRICAL DISTRIBUTION

### CIRCUIT BREAKER

Voltage	600VAC/250VDC
Poles	3
Amps	800 A

### DISTRIBUTION

Load Shed	Capable
Paralleling	Available
Location	Rear

## FUEL CONSUMPTION

### NATURAL GAS (905 LHV)

100% Load	3284 SCFH
75% Load	2584 SCFH
50% Load	1896 SCFH

### PROPANE (WITH PROPANE START OPTION)

100% Load	35.0 gal/hr
75% Load	27.5 gal/hr
50% Load	20.2 gal/hr

## EXHAUST DATA

Pipe Diameter	8.0 in
Exit Direction	Upward
Max Temp. (Engine OUT)	942° F
Exhaust Outlet Height	100 in

### EMISSIONS (CATALYST OUT)

NO2	0.5 g/bhp-hr
CO	2.0 g/bhp-hr
THC	2.0 g/bhp-hr

## FUEL TRAIN PRESSURE SETTINGS

### INLET SIZE

Natural Gas	2 in NPT
Propane	3/8 in NPT

### OPTIMAL NATURAL GAS INLET PRESSURE

Minimum	75 psi
Maximum	300 psi

### PRESSURE RELIEF VALVES

PRV #1	200 psi
PRV #2	50 psi

## ELECTRONICS

Ignition System	ADEM A4
Governor Type	ADEM A4
Controller	EMCP 4.3
Battery Voltage	24V
Number of Batteries	2

## DIMENSIONS

Length	216 in
Height	100 in
Width	79.5 in

Technical information contained in this document is subject to change without notice. Data may vary from unit to unit. Unit photo may not depict actual configuration.

## LOW LOAD TIME FOR CONTINUOUS APPLICATION

Engine Load	G3300, 3400, 3500		G3600
	NA	TA	TA
Low Idle	1 hr	1 hr	1 hr
20%	8 hr	24 hr	24 hr
40%	24 hr	750 hr	750 hr
60%	100 hr	750+ hr	750+ hr
80%	750+ hr	750+ hr	750+ hr
100%	750+ hr	750+ hr	750+ hr

NOTE: CG-137 falls under the G3400 TA model family.

FOR MORE INFORMATION:

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**WARREN**

**CAT**