

CG137-12 TA

Gas Petroleum Engine 400 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	600 bhp	Compression Ratio	8.3:1	Specific Output	22.2 bhp/L
Stroke	6 in	Number of Cylinders	12	Weight (Dry)	6250 lb
Bore	5.4 in	Cylinder Arrangement	Vee	Engine Speed	1,800 rpm
Displacement	27 L	Aspiration	Turbocharged-Aftercooled	Oil Change Interval	750 hr

GENERATOR

Make	Cat	Power	400 ekW	Voltage Regulation	< 1/2%
Model	SR4B	Voltage	480 V	Frequency	60 Hz

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ELECTRICAL DISTRIBUTION

CIRCUIT BREAKER

Voltage	600VAC/250VDC
Poles	3
Amps	800 A

DISTRIBUTION

Load Shed	Capable
Paralleling	Capable
Location	Rear

FUEL CONSUMPTION

NATURAL GAS (905 LHV)

100% Load	4906 SCFH
75% Load	3861 SCFH
50% Load	2831 SCFH

PROPANE (WITH PROPANE START OPTION)

100% Load	52.3 gal/hr
75% Load	41.1 gal/hr
50% Load	30.2 gal/hr

EXHAUST DATA

Pipe Diameter	8.0 in
Exit Direction	Upward
Max Temp. (Engine OUT)	1010° F
Exhaust Outlet Height	102.3 in

EMISSIONS (CATALYST OUT)

NO2	0.5 g/bhp-hr
CO	2.0 g/bhp-hr
THC	2.3 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	230 in
Height	102.3 in
Width	89 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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