G3406 TA

Gas Petroleum Engine 170 ekW Generator Unit

FEATURES

Murphy EICS

The Engine Integrated Control System (EICS) combines engine key components to optimize the engine performance while maintaining emission compliance. The precalibrated package combines ignition system, air-fuel ratio control, speed governing, interface and diagnostics, sensors, harnesses, catalyst and engine control unit (ECU) to achieve the highest performance. The system ensures an automatic operation avoiding manual field adjustments. In addition, EICS allows for a wider spectrum of natural gas qualities to work with the engine by automatically adjusting and keeping performance and compliance.

Dynamic Propane System (Optional)

The dynamic propane 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 reduces downtime by allowing the engine to start with propane and also automatically switch fuels in the case of shortage of natural gas pressure.

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.



Electrical Distribution

Three phase lug distribution with load bank capability. Weather proof panel fitted with door shunt trip safety sensor.

Structural Skid

Engineered with substantial structural integrity while keeping low height and weight. Designed to be portable and to fit standard trailer sizes. Fitted with forklift pockets and tow bars for added convenience.

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.

S P E C I F I C A T I O N S

ENGINE

Brake Horse Power	276 bhp
Stroke	6.5 in
Bore	5.4 in
Displacement	14.59 L

Aspiration Turbocharged-	Aftercooled
Cylinder Arrangement	In-Line
Number of Cylinders	6
Compression Ratio	9.4 :1

Specific Output	18.9 bhp/L
Weight (Dry)	3000 lb
Engine Speed	1,800 rpm
Oil Change Interval	750 hr

GENERATOR

Make Cat	Power	170 ekW	Voltage Regulation	< 1/2%
Model SR4B	Voltage	480 V	Frequency	60 Hz

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ELECTRICAL DISTRIBUTION

CIRCUIT BREAKER		DISTRIBUTION	
Voltage 600VAC/250V	DC	Load Shed	Capable
Poles	3	Paralleling	n/a
Amps 40) A	Location	Rear

FUEL CONSUMPTION

NATURAL GAS (905 LHV)	PROPANE (WITH PROPANE START OPTION)
100% Load 2262 SCFH	100% Load 24.1 gal/hr
75% Load 1851 SCFH	75% Load 19.72 gal/hr
50% Load 1444 SCFH	50% Load 15.39 gal/hr

EXHAUST DATA

Pipe Diameter	5.0 in	EMISSIONS (CATALYST OUT)
Exit Direction	Forward	NO2 0.5 g/bhp-hr
		CO 2.0 g/bhp-hr
Max Temp. (Engine OUT)	1007° F	THC 1.5 g/bhp-hr
Exhaust Outlet Height	148 in*	

FUEL TRAIN PRESSURE SETTINGS

INLET SIZE		OPTIMAL NATURAL GAS	INLET PRESSURE	PRESSURE RELIEF VALVES	
Natural Gas	2 in NPT	Minimum	75 psi	PRV #1	200 psi
Propane	3/8 in NPT	Maximum	300 psi	PRV #2	50 psi

ELECTRONICS

Ignition System	Murphy EICS
Governor Type	Woodward Flo-Tech
Controller	EMCP II+
Battery Voltage	24V
Number of Batteries	2

DIMENSIONS

Length	240 in*
Height	156 in*
Width	96 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. *Trailer dimensions included.

LOW LOAD TIME FOR CONTINUOUS APPLICATION

Engine Load	G3300, 34	G3600	
Lingino Louu	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

FOR MORE INFORMATION:

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