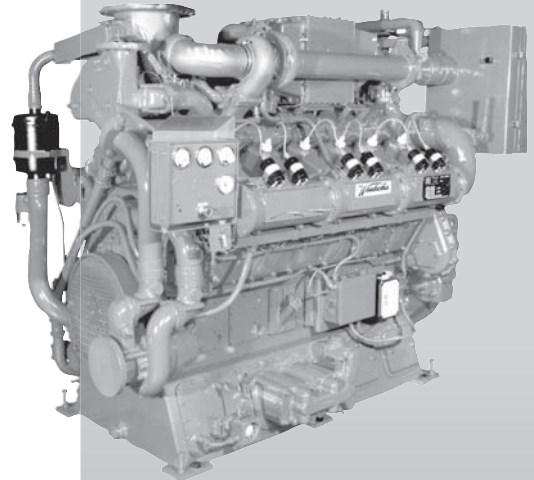


STANDARD EQUIPMENT

- AIR CLEANER** – Dual two stage, dry panel type with rain shield and service indicator. Engine mounted.
- BARRING DEVICE** – Manual.
- BREATHER** – Crankcase, closed type (mounted).
- CARBURETOR** – Two natural gas Deltec carburetors. Mounted before turbochargers for low fuel pressure. Includes speed switch and solenoid that opens upon cranking and closes when engine rotation ceases.
- CONTROLS** – Local shutdown switch, engine mounted.
- CONNECTING RODS** – Drop forged alloy steel, angle split, serrated joint, oil jet piston pin lubrication.
- COOLING SYSTEM** – Jacket water: gear driven jacket water pump, thermostatically controlled, full flow bypass type with nominal 180° F (82° C) outlet temperature. 4" ANSI flange connection. Auxiliary water: thermostatically controlled, gear driven pump supplies water to intercooler and oil cooler circuit. 2" special companion flanges supplied.
- CRANKCASE** – Alloy cast iron, fully ribbed, integral with cylinder frame.
- CRANKSHAFT** – Drop forged alloy steel, dynamically balanced and fully counterweighted. Viscous vibration dampener.
- CYLINDERS** – Removable wet type liners of centrifugally cast alloy iron.
- CYLINDER HEADS** – Twelve interchangeable, valve-in-head type, with two hard faced intake and two hard faced exhaust valves per cylinder. Replaceable intake and exhaust valve seats. Mechanical valve lifters with pivoted roller followers.
- EXHAUST SYSTEM** – Water cooled exhaust manifolds. Single outlet flange for ANSI 10" 125# flange.
- FLYWHEEL** – With 165 tooth ring gear (for Delco electric and air/gas starters). Flywheel machined to accept SAE 620D-21, 21" (533 mm) diameter clutch, or SAE J927B-210 flywheel converter.
- FLYWHEEL HOUSING** – SAE #00, nodular iron housing. Provision for two magnetic pickups.
- GOVERNOR** – Woodward PSG hydraulic.
- IGNITION** – Waukesha Custom Engine Control electronic ignition system with coils, cables and spark plugs. Non-shielded. 24V DC power required. Includes emergency stop/service engine protection switch for local override of remote controls.
- INTERCOOLER** – Two pass, fin and tube, air-to-water.
- LIFTING EYES** – For engine only.
- LUBRICATION SYSTEM** – Gear type pump, replaceable spin on oil filters and industrial base type oil pan, 86 gallon (326 litres) capacity. Engine mounted shell and tube oil cooler, thermostatic valve for oil temperature control, and prelube pump. Customer supplied prelube pump motor frame size must conform to frame size 56C and "M" drive configuration.
- MOUNTING** – Base type oil pan.
- PAINT** – Oilfield orange.
- PISTONS** – Aluminum alloy, three ring, with deep central combustion bowl. Oil jet cooled with full floating piston pin. 8.6:1 compression ratio.
- TURBOCHARGER** – Two exhaust driven, dry type with wastegate. For 1400 – 1800 rpm applications.

VG® Series Gas Engine

620-880 BHP (463-656 kWb)



Engine shown with options.

Model L36GSID

Turbocharged and Intercooled, Draw-Thru Carburetion, Twelve Cylinder, Four-Cycle Gas Fueled Engine

SPECIFICATIONS

Cylinders V 12	Lube Oil Capacity 86 gal. (326 L)
Piston Displacement 2193 cu. in. (36 L)	Low Fuel Pressure System
Bore & Stroke 5.98" x 6.5" (152 x 165 mm)	8" WC - 5-psig (According to regulator used:
Compression Ratio 8.6:1	0.02 - 0.34 bar)
Jacket Water System Capacity 44 gal. (166 L)	Starting System 150 psi max. air/gas 24V DC electric
	Dry Weight 11,200 lb. (5080 kg)

Cooling Water Flow at	1500 rpm	1800 rpm
Jacket Water gpm (l/m)	184 (697)	218 (825)
Aux. Water gpm (l/m)	52 (197)	62 (235)



POWER RATINGS: L36GSID VGF SERIES GAS ENGINES

Model	I.C. Water Inlet Temp. °F (°C) (Tcra)	C.R.	Bore & Stroke in. (mm)	Displ. cu. in. (litres)	Brake Horsepower (kWb Output)							
					1400 rpm		1500 rpm		1600 rpm		1800 rpm	
					I	C	I	C	I	C	I	C
L36GSID	130° (54°)	8.6:1	5.98 x 6.5 (152 x 165)	2193 (36)	685	620	735	670	780	710	880	800
					(511)	(463)	(548)	(500)	(582)	(530)	(656)	(597)

Rating Standard: All models: Ratings are based on ISO 3046/1-1995 with mechanical efficiency of 90% and auxiliary water temperature Tcra (clause 10.1) as specified limited $\pm 10^\circ\text{F}$ (5°C). Ratings are also valid for SAE J1349, BS5514, DIN6271 and AP17B-11C standard atmospheric conditions.

Intermittent Power Rating: The highest load and speed which can be applied in variable speed mechanical system application only. Operation at this rating is limited to a maximum of 3500 hours per year.

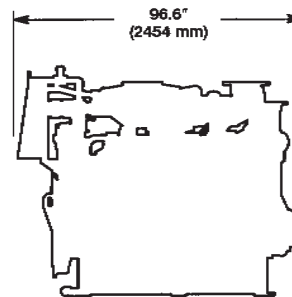
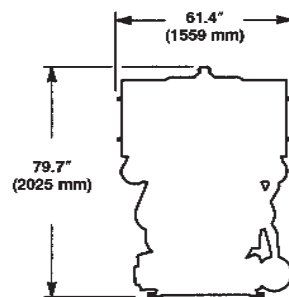
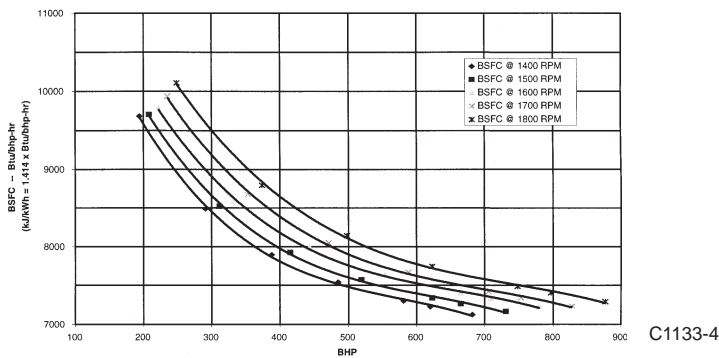
ISO Standard Power/Continuous Power Rating: The highest load and speed which can be applied 24 hours a day, seven days a week, 365 days per year except for normal maintenance, it is permissible to operate the engine at up to 10% overload, or maximum load indicated by the intermittent rating, whichever is lower, for two hours in each 24 hour period.

Standby Power Rating: This rating applies to those systems used as a secondary source of electrical power. This rating is the output the system will produce continuously (no overload), 24 hours per day for the duration of the prime power source outage.

All natural gas engine ratings are based on a fuel of 900 Btu/ft³ (35.3 MJ/m³) SLHV, with a 91 WKI[®]. For conditions or fuels other than standard, consult Dresser Waukesha Application Engineering Department.

Consult your local Waukesha Distributor for system application assistance. The manufacturer reserves the right to change or modify without notice, the design or equipment specifications as herein set forth without incurring any obligation either with respect to equipment previously sold or in the process of construction except where otherwise specifically guaranteed by the manufacturer.

FUEL CONSUMPTION 130° F (54.5° C) ICW TEMPERATURE 180° F (82° C) JW TEMPERATURE



L8074-16

Bulletin 7090 1008

Dresser Waukesha
1101 West St. Paul Avenue · Waukesha, WI 53188-4999
Phone: (262) 547-3311 · Fax: (262) 549-2795

©2008 Dresser Inc. Waukesha, WKI, VGF are trademarks/registered trademarks of Dresser Waukesha, Dresser, Inc.



Waukesha

www.dresser.com