

SHENZHEN FUDIANKANG ENERGY CO., LTD

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DATA SHEET

DIESEL GENERATOR 1760KW MODEL#FDK-CG1760/H1 50HZ/1500RPM **CUMMINS MODEL: QSK60-G4**



General Features:

- All qualified generator sets are subjected to a comprehensive performance test which includes 50% load, 70% load, 100% load, 110% load and to check, verify that all control systems, alarm and shut-down protection.
- Equipped with battery charger and 24V high performance maintenance-free lead-acid starting batteries and connecting
- Stainless galvanized zinc plates with strong corrosion-proof.
- Vibration isolators between the engine/alternator and base frame.
- Equipped with industrial silencer and flexible exhaust hose.
- Designed to comply with ISO8528/GB2820.
- Powered by Cummins engine and coupled with Stamford alternator.
- Water jacket preheater, oil heater and double air cleaner, etc. are available.

FDK Diesel Generator Set Data

Genset Model	FDK-CG1760/H1
Prime Power	1600KW/2000KVA
Standby Power	1760KW/2200KVA
Output Frequency / Rated speed	50Hz/1500rpm
Rated Voltage	230V/400V

Engine Make	Cummins ONAN UK
Engine Model	QSK60-G4
Alternator model	Stamford PI734F
Control System	DSE7320
Phase	Three

- (1) Prime power: The rating is available for an unlimited of annual operating hours in variable load applications, in accordance with ISO8528-1.A 10% overload is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1.
- (2) Standby power: The rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.
- (3) Rated voltage: available with customer requirement.

(DETAILED in APPENDIX) Engine Specifications

Engine Model	QSK60-G4
Engine Manufacturer	Cummins
	ORIGINAL UK
Cylinder quantity	16
Cylinder Arrangement	60° Vee
Cycle	4

Aspiration	Turbo-charged
Bore x Stroke (mm x mm)	159×190
Displacement	60.2L
Compression Ratio	14.5:1
Prime power / Speed (KW/RPM)	1730kw/1500
Standby power/ Speed (KW/RPM)	1915kw/1500





FDK reserves the right to change the specifications and designs without noice.



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Type Injection System	Cummins	Fuel Consumption at 100% load	193 at 1500rpm
	HPI-PT	(g/KWh)	
Piston Speed	9.5m/s	Starter motor	DC24V
Friction Energy Output	146kw	Low idle	700-900pm
Total Lubrication System Capacity	280L	Coolant Capacity (L)	157

Alternator Specifications

Alternator model	PI734F	Number of phase	3	
Alternator manufacturer	STAMFORD	Rated voltage	400V (Available with	
Exciter type	Single bearing, Brushless,		custom requirements)	
	Self-excited	Power factor	0.8	
Rated output prime power	2080 KVA	Voltage regulation NL-FL	≤±1%	
Rated speed	1500 rpm	Insulation grade	Н	
Rated frequency	50Hz	Protection grade	IP23	

Alternator option: Leroy Somer, MECC, Marathon, Engga, Faraday

Control System DSE7320 (DETAILED in INSTRUCTION)

DSE7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, breaker control and automatically start the engine when the mains are abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

FEATURES

- Microprocessor control, with high stability and credibility.
- Monitoring and measuring operational parameters of the mains supply and genset.
- Indicating operation status, fault conditions, all parameters and alarms.
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable.
- Real time clock for time and date display, overall runtime display, 250 log entries.
- Overall power output display.
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol.

Soundproof Enclosure Specification

FDK silent generator is designed by professional acoustic engineers based on years of experience. Now we can make the noise of the generator less than 80-85dB(A) at 1m, or 70-75dB(A) at 7m, 60-65dB(A) at 15m.

FEATURES

- Multi-way air intake and exhaust guarantee the power performance of the generator.
- Large-scale impedance combined type silencer effectively reduce noise of the generator.
- Internal high performance rubber damper and flexible materials reduce vibration.
- Base mounted fuel tank supports the generator running for 8 hours.





ISO9001:2008

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Gen	Generator set Alternator		Low	environment Temp	ATS		
	Open generator set		Stamford		Water heater		CHINT
	Silent generator set		Marathon		Oil heater		SCHNEIDER
	Trailer generator set		Mecc Alte		Battery heater		ABB
	ABB MCCB circuit breaker		Leroy Somer				
			Farady				
			Engga				
Fue	Fuel system		Control system		age	Syn	chronized system
	12hrs base tank		AMF function		415/240V		CHINT Cabinet
	24hrs base tank		ATS control cabinet		400/230V		SCHNEIDER Cabinet
	Dual wall base fuel tank		DSE7320		380/220V		DSE8610 Module
	Outside fuel tank		DSE7510		220/127V		COMAQ Module
			GU620A		200/115V	П	DEIF Module

Dimension & Weight Open

Overall Size:	5900×2100×2750
LxWxH (mm)	
Weight (kg)	16000

Soundproof Version

Overall Size:	40FT CONTAINER
L×W×H (mm)	
Weight (kg)	29000

Sales Promises

- FDK provides a full line of brand new and high quality products. Each and every unit is strictly factory tested before shipment.
- Quality warranty is according to our standard conditions: 12 months from BL date or 1000 running hours, whichever comes
- Service and parts are available from FDK or distributors in your location.
- FDK guarantee use BRAND NEW & GENUINE MACHINE.





Cummins Inc.

Columbus, Indiana 47201

Engine Data Sheet

Basic Engine Model: **QSK60-G4**

CPL: 2888

Engine Critical Parts List:

Curve Number: FR-6345

Date: 6Feb03 QSK 1

G-DRIVE

Displacement: **60.2** litre (**3673** in³)

Bore: 159 mm (6.25 in.) Stroke: 190 mm (7.48 in.)

No. of Cylinders: 16

Aspiration: Turbocharged and Low Temperature Aftercooled (2 Pump / 2 Loop)

Emissions: Refer to Emission Data Sheet for Details.

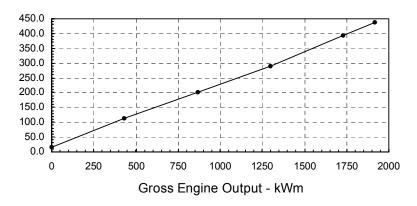
Engine Ratings:

Engine Speed	Standby Power		Prime	Power	Continuo	us Power
RPM	kWm	ВНР	kWm	ВНР	kWm	ВНР
1500	1915	2567	1730	2319	1415	1897

Engine Fuel Consumption @ 1500 RPM

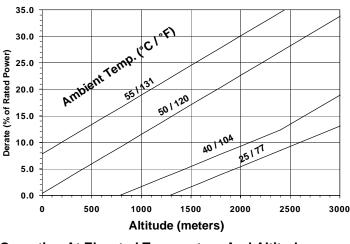
OUTPUT POWER			FUEL CONSUMPTION					
%	kWm	ВНР	kg/ kWm∙h	lb/ BHP∙h	litre/ hour	U.S. Gal/ hour		
STAND	STANDBY POWER							
100	1915	2567	0.194	0.319	437	115.3		
PRIME	PRIME POWER							
100	1730	2319	0.193	0.318	394	103.9		
75	1298	1739	0.191	0.314	291	76.9		
50	865	1160	0.196	0.323	200	52.7		
25	433	580	0.224	0.369	114	30.1		
CONTI	CONTINUOUS POWER							
100	1415	1897	0.192	0.316	320	84.4		

Litres / hour

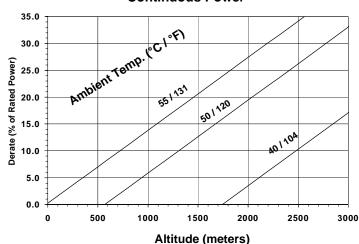


Power Derate Curves:

Standby / Prime Power



Continuous Power



Operation At Elevated Temperature And Altitude:

For sustained operation above these conditions, derate by an additional 4.1% per 300 m (1000 ft), and 16% per 10° C (18° F).

CONVERSIONS:(litres = U.S. Gal x 3.785) (U.S.Gal = litres x 0.2642)

These quidelines have been formulated to ensure proper application of generator drive engines in A.C. generator set in stallations. STANDBY POWER RATING: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the Standby Power rating. This rating should be applied where reliable utility power is available. A Standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating. Standby ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered an emergency. PRIME POWER RATING: Applicable for supplying electric power in lieu of commercially purchased power. Prime Power applications must be in the form of one of the following two categories: VILLIMITED TIME RINNING PRIME POWE ER. Prime Power is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 250 hours. The total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload power shall not exceed 25 hours per year. In the 10% overload power shall not exceed 25 hours per year. In 10% overload power shall not exceed 25 hours per year. In 10% overload power shall not exceed 25 hours per year. In 10% overload power shall not exceed 25 hours per year. In 10% overload power shall not exceed 25 hours per year. In 10% overload power shall not exceed 25 hours per year in a non-variable load application. It is intended for use in situations where power outages are contracted, such as in utility power curtailment. Engines may be operated in parallel to the public utility up to 750 hours per year at power levels never to exceed the Prime Power rating. The customer should be aware, however, that the life of any engine will be reduced by this constant high load operation. Any operation exceeding 750 hours per year at the Prime Power rating should use the Continuous Power rating CONTINUOUS POWER RATING: Applicable for supplying utility power at a constant 100% load for an unlimited number of hours per year. No overload capability is available for this rating. Standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year an unlimited number of hours per year. No overload capability is available for this rating.

Data Subject to Change Without Notice

Reference AEB 10.47 for determining Electrical Output.

Data shown above represent gross engine performance capabilities obtained and corrected in accordance with ISO-3046 conditions of 100 kPa (29.53 in Hg) barometric pressure [110 m (361 ft) altitude], 25 °C (77 °F) air inlet temper-ature, and relative humidity of 30% with No. 2 diesel or a fuel corresponding to ASTM D2. Derates shown are based on 15 in H₂0 air intake restriction and 2 in Hg exhaust back pressure

The fuel consumption data is based on No. 2 diesel fuel weight at 0.85 kg/litre (7.1 lbs/U.S. gal). Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan, optional equipment and driven components.

Data Status: Limited Production

Data Tolerance: ± 5%

Chief Engineer:

DK. J.www.felkenergy.com

Cummins Inc. Engine Data Sheet

ENGINE MODEL: QSK60-G4 **CONFIGURATION NUMBER:** D593002GX03

DATA SHEET: DS-6345-LP
DATE: 6Feb03
PERFORMANCE CURVE: FR-6345

: 2888

CPL NUMBER

INSTALLATION DIAGRAM ◆ Fan to Flywheel : 3170455 Engine Critical Parts List

Achiration		4-Cycle; 60° Vee; 16-Cylinder Diese Turbocharged and Low Temperature		
Aspiration		Aftercooled (2 F		
Bore x Stroke— mm	x mm (in x in)	159 x 190 (6.25		
Displacement	— litre (in ³)	60.2 (3673)		
Compression Ratio		14.5 : 1		
Dry Weight				
Fan to Flywheel Engine (with SAE 0 Flywheel and Flywheel Housing)	— kg (lb)	7185	(15835)	
Wet Weight	3 (- /		(,	
Fan to Flywheel Engine	— kg (lb)	7540	(16620)	
Moment of Inertia of Rotating Components				
	• m ² (lb • ft ²)	15 77	(275.5)	
• with FW 6043 Flywheel (SAE 0)		15.77	(375.5)	
• with FW 6037 Flywheel (SAE 00)		26.23	(622.4)	
Center of Gravity from Front Face of Block	— mm (in)	1001	(39.4)	
Center of Gravity Above Crankshaft Centerline	— mm (in)	219	(8.6)	
Maximum Static Loading at Rear Main Bearing	— kg (lb)	1134	2500	
NGINE MOUNTING				
Maximum Bending Moment at Rear Face of Block — —	- N • m (lb • ft)	10350	(7634)	
KHAUST SYSTEM				
Maximum Back Pressure at 1500 RPM (Standby Power)	nm Hg (in Hg)	51	(2)	
R INDUCTION SYSTEM				
Maximum Intake Air Restriction				
• with Dirty Filter Element	kPa (in H _a ∩)	6.2	(25)	
• with Clean Filter Element	/	3.7	(15)	
OOLING SYSTEM (Samereta Circuit Afternooling Demoired)				
OOLING SYSTEM (Separate Circuit Aftercooling Required) Coolant Capacity — Engine—	- litre (LIS gal)	157	(42)	
Coolant Capacity — Linging	i i.		(7 2)	
Afternoologo		24	(0)	
— Aftercoolers	` ' '	34	(9)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi)	76	(11)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi)		٠,	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head) Maximum Static Head of Coolant Above Engine Crank Centerline Jacket Water Circuit Requirements:	. — kPa (psi) — m (ft)	76	(11)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi) — m (ft)	76	(11)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head) Maximum Static Head of Coolant Above Engine Crank Centerline Jacket Water Circuit Requirements: Maximum Coolant Friction Head External to Engine — 1500 rpm	. — kPa (psi) — m (ft) . — kPa (psi)	76 18.3	(11) (60)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head) Maximum Static Head of Coolant Above Engine Crank Centerline Jacket Water Circuit Requirements: Maximum Coolant Friction Head External to Engine — 1500 rpm	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F)	76 18.3 48	(11) (60) (7)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F)	76 18.3 48 104 / 100	(11) (60) (7) (220 / 212)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F) — °C (°F)	76 18.3 48 104 / 100 82 - 93	(11) (60) (7) (220 / 212) (180 - 200)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head) Maximum Static Head of Coolant Above Engine Crank Centerline Jacket Water Circuit Requirements: Maximum Coolant Friction Head External to Engine — 1500 rpm Maximum Top Tank Temperature for Standby / Prime Power Thermostat (Modulating) Range Aftercooler Circuit Requirements: Maximum Coolant Friction Head External to Engine — 1500 rpm	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F) — °C (°F)	76 18.3 48 104 / 100 82 - 93	(11) (60) (7) (220 / 212) (180 - 200)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head) Maximum Static Head of Coolant Above Engine Crank Centerline Jacket Water Circuit Requirements: Maximum Coolant Friction Head External to Engine — 1500 rpm Maximum Top Tank Temperature for Standby / Prime Power Thermostat (Modulating) Range Aftercooler Circuit Requirements: Maximum Coolant Friction Head External to Engine — 1500 rpm Maximum Inlet Water Temperature to Aftercoolers @ 25 °C (77 °F)	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F) — °C (°F) — kPa (psi) — °C (°F)	76 18.3 48 104 / 100 82 - 93 35 49	(11) (60) (7) (220 / 212) (180 - 200) (5) (120)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head) Maximum Static Head of Coolant Above Engine Crank Centerline Jacket Water Circuit Requirements: Maximum Coolant Friction Head External to Engine — 1500 rpm Maximum Top Tank Temperature for Standby / Prime Power Thermostat (Modulating) Range	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F) — °C (°F) — °C (°F) — °C (°F)	76 18.3 48 104 / 100 82 - 93	(11) (60) (7) (220 / 212) (180 - 200)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F) — °C (°F) — °C (°F) — °C (°F)	76 18.3 48 104 / 100 82 - 93 35 49 65	(11) (60) (7) (220 / 212) (180 - 200) (5) (120) (150)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F)	76 18.3 48 104 / 100 82 - 93 35 49 65 46 - 57	(11) (60) (7) (220 / 212) (180 - 200) (5) (120) (150) (115 - 135)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F)	76 18.3 48 104 / 100 82 - 93 35 49 65 46 - 57	(11) (60) (7) (220 / 212) (180 - 200) (5) (120) (150) (115 - 135)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F) — kPa (psi) — kPa (psi) — kPa (psi)	76 18.3 48 104 / 100 82 - 93 35 49 65 46 - 57	(11) (60) (7) (220 / 212) (180 - 200) (5) (120) (150) (115 - 135) (20) (50-70)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head) Maximum Static Head of Coolant Above Engine Crank Centerline Jacket Water Circuit Requirements: Maximum Coolant Friction Head External to Engine — 1500 rpm Maximum Top Tank Temperature for Standby / Prime Power Thermostat (Modulating) Range	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F) — kPa (psi) — kPa (psi) — c (°F)	76 18.3 48 104 / 100 82 - 93 35 49 65 46 - 57	(11) (60) (7) (220 / 212) (180 - 200) (5) (120) (150) (115 - 135) (20) (50-70) (250)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head)	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F) — kPa (psi) — kPa (psi) — c (°F)	76 18.3 48 104 / 100 82 - 93 35 49 65 46 - 57	(11) (60) (7) (220 / 212) (180 - 200) (5) (120) (150) (115 - 135) (20) (50-70)	
Minimum Pressure Cap (for Cooling Systems with less than 2m [6 ft.] Static Head) Maximum Static Head of Coolant Above Engine Crank Centerline Jacket Water Circuit Requirements: Maximum Coolant Friction Head External to Engine — 1500 rpm Maximum Top Tank Temperature for Standby / Prime Power Thermostat (Modulating) Range	. — kPa (psi) — m (ft) . — kPa (psi) — °C (°F) — kPa (psi) — kPa (psi) — kPa (psi) — c (°F) - litre (US gal)	76 18.3 48 104 / 100 82 - 93 35 49 65 46 - 57	(11) (60) (7) (220 / 212) (180 - 200) (5) (120) (150) (115 - 135) (20) (50-70) (250)	

FUEL SYSTEM		
Type Injection System	Cummins HPI-I	PT
Maximum Restriction at PT Fuel Injection Pump — with Clean Fuel Filter— mm Hg (in Hg)	120	(4.0)
— with Dirty Fuel Filter — mm Hg (in Hg)	203	(8.0)
Maximum Allowable Head on Injector Return Line (Consisting of Friction Head and Static Head) — mm Hg (in Hg)	229	(9.0)
Maximum Fuel Inlet Temperature —°C (°F)	70	(160)
Maximum Fuel Flow to Injection Pump — litre / hr (US gph)	1893	(500)
Maximum Drain Flow — litre / hr (US gph)	1855	(490)
ELECTRICAL SYSTEM		
Cranking Motor (Heavy Duty, Positive Engagement)	24	
Maximum Allowable Resistance of Cranking Circuit	.002	
Minimum Recommended Battery Capacity		
• Cold Soak @ 10 °C (50 °F) and Above — 0°F CCA	1800	
• Cold Soak @ 0 °C to 10 °C (32 °F to 50 °F)	1800	
• Cold Soak @ -18 °C to 0 °C (0 °F to 32 °F)	2200	
COLD START CAPABILITY		
Minimum Ambient Temperature for Cold Start with watt Coolant Heater to Rated Speed	TBD	(TBD)
Minimum Ambient Temperature for Unaided Cold Start to Idle Speed	-12	` (10)
Minimum Ambient Temperature for NFPA 110 Cold Start (90° F Minimum Coolant Temperature)	10	(50)
PERFORMANCE DATA		
 Engine operating with fuel system, water pump, lubricating oil pump, air cleaner and exhaust silencer; not included are battery charging alternator, fan, and optional driven components. Engine operating with fuel corresponding to grade No. 2-D per ASTM D975. ISO 3046, Part 1, Standard Reference Conditions of: Barometric Pressure : 100 kPa (29.53 in Hg) Air Temperature : 25 °C (77 °F Altitude : 110 m (361 ft) Relative Humidity : 30% 	- F)	

Steady State Stability Band at any Constant Load --%

Governed Engine Speed rpm
Engine Idle Speed — rpm
Gross Engine Power Output
Brake Mean Effective Pressure kPa (psi)
Piston Speed m / s (ft / min)
Friction Horsepower — kW _m (HP)
Engine Jacket Water Flow at Stated Friction Head External to Engine:
• 4 psi Friction Head — litre / s (US gpm)
Maximum Friction Head — litre / s (US gpm)
Engine Data
Intake Air Flow — litre / s (cfm)
Exhaust Gas Temperature
` '
Exhaust Gas Temperature
Exhaust Gas Temperature — °C (°F) Exhaust Gas Flow — litre / s (cfm) Air to Fuel Ratio — air : fuel Radiated Heat to Ambient — kW _m (BTU / min)
Exhaust Gas Temperature

Estimated Free Field Sound Pressure Level of a Typical Generator Set;

STANDBY POWER 60 hz 50 hz			PRIME POWER 60 hz 50 hz		
	700 1915 2544 9.5 146	500 - 900 (2567) (369) (1869) (196)		700 1730 2296 9.5 146	500 (2319) (333) (1869) (196)
Not Applicable for 1800 RPM	26.5 24.0	(420) (380)	Not Applicable for 1800 RPM	26.5 24.0	(420) (380)
Operation	2405 450 5610	(5090) (835) (11880)	Operation	2264 430 5190	(4800) (805) (10990)
	26.3:1			27	'.5:1
	175 500 1325 35	(9990) (28300) (75280) (2000)		160 450 1180 35	(9000) (25460) (67010) (2000)
	455	(25730)		400	(22620)
	7.1 6.9	(112) (109)		7.1 6.9	(112) (109)

^{*} This is the maximum heat rejection to fuel, which is at low load.

• 2 psi Friction Head — litre / s (US gpm)
• Maximum Friction Head — litre / s (US gpm)

N.A. - Data is Not Available

N/A - Not Applicable to this Engine

TBD - To Be Determined

ENGINE MODEL: QSK60-G4
DATA SHEET: DS-6345

CORVE NO: FR 6845

+/- 0.25

93.4 (est.)

108 (est.)