

SHENZHEN FUDIANKANG ENERGY CO., LTD

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DATA SHEET

DIESEL GENERATOR 720KW MODEL#FDK-CG720/H1 50HZ/1500RPM CUMMINS MODEL: QSK23-G3



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 cables.
- 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.

FDR Diesel Generator Set	Dala		
Genset Model	FDK-CG720/H1	Engine Make	Cummins Original
Prime Power	640KW/800KVA	Engine Model	QSK23-G3
Standby Power	720KW/900KVA	Alternator model	Stamford HCI634G
Output Frequency / Rated speed	50Hz/1500rpm	Control System	DSE7320
Rated Voltage	230V/400V	Phase	Three

FDK Diesel Generator Set Data

(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.

Engine Specifications (DETAILED in APPENDIX)

	-		
Engine Model	QSK23-G3	Aspiration	Turbo-charged
Engine Manufacturer	Cummins	mins Bore x Stroke (mm x mm)	
	ORIGINAL	Displacement	23.15L
Cylinder quantity	6	Compression Ratio	16.0:1
Cylinder Arrangement	In-line	Prime power / Speed (KW/RPM)	701kw/1500
Cycle	4	Standby power/ Speed (KW/RPM)	768kw/1500



ISO9001:2008

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



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GUANGZHOU SANQ DIESEL GENERATOR SET CO., LTD

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Type Injection System	Cummins
	HPI-PT
Piston Speed	8.5m/s
Friction Energy Output	72kw
Total Lubrication System Capacity (L)	103

		01.00		
Fuel Consumptio	n at	100%	load	195 at 1500rpm
(g/KWh)				
Starter motor				DC24V
Low idle				750pm
Coolant Capacity (L)			46.5

Alternator Specifications

Alternator model	HCI634G	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	810KVA	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.





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Optional								
Gen	erator set	Alte	rnator	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	system	Control system		Voltage		Synchronized 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		DEIF Module	

Dimension & Weight Open

Soundproof Version

Overall Size:	3800×1818×2350	· · ·	Overall Size:	5800×2000×2550
L×W×H (mm)			L×W×H (mm)	
Weight (kg)	7000	\frown	Weight (kg)	9300
			Y	

Sales Promises

- FDK provides a full line of brand new and high quality products. Each and every unit is strictly factory tested before ۵ shipment.
- Quality warranty is according to our standard conditions: 12 months from BL date or 1000 running hours, whichever comes first.
- Service and parts are available from FDK or distributors in your location.
- FDK guarantee use BRAND NEW & GENUINE MACHINE.



mmins	cummin ⁵ Cummins Columbus, Indian		s Inc.		Engine Model: K23-G3	Curve Numbe FR-5001	
CUI		Columbus, India	ana 47201	Engine C	ritical Parts List:	Date:	QON
	Engine Data Sheet			СР	L: 8352	16Jan06	
Displacement :	: 23.15 litre (1413 in ³)	Bore : 170 mm ((6.69 in.) Stroke :	170 mm (6.69 in.)		
No. of Cylinder	rs : 6		Aspiration : Turk	ocharged and Ai	r to Air Aftercooled	d	
Engine S	peed	Stand	Standby Power		Prime Power		ous Power
RPM	I	kWm	BHP	kWm	внр	kWm	BHP
1500)	768	1030	701	940	537	720
1800		895	1200	809	1085	652	875

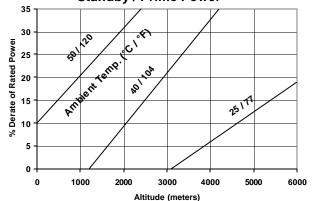
Emissions Certification (1800 RPM Only)

"For mobile applications in the U.S. and Canada, this rating may only be sold in accordance with the OEM TPEM provisions of 40 CFR 89.102. For stationary applications in the U.S. (except California), this rating may be sold through 2006 under the NSPS provisions of 40 CFR Part 60."

Engine Performance Data @ 1500 RPM

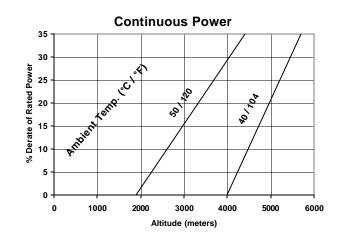
OUTI	OUTPUT POWER		FUEL CONSUMPTION			ON			
%	kWm	BHP	kg/ kWm∙h	lb/ BHP∙h	litre/ hour	U.S. Gal/ hour			
STAN	DBY PO	WER							
100	768	1030	0.197	0.323	178	46.9			
PRIM	E POWE	R							
100	701	940	0.195	0.321	161	42.5			
75	526	705	0.196	0.322	121	32.0			
50	351	470	0.206	0.338	85	22.4			
25	175	235	0.223	0.370	46	12.2			
CONT	CONTINUOUS POWER								
100	537	720	0.198	0.326	125	33.1			

Power Derate Curves @ 1500 RPM Standby / Prime Power



Litre/hour 200.0 175.0 1500 RPM 150.0 125.0 100.0 75.0 50.0 25.0 0.0 100 200 300 400 500 600 0 700 800





Operation At Elevated Temperature And Altitude:

For sustained operation above these conditions, derate by an additional 3.4% per 300 m (1000 ft), and 20% per 10° C (18° F).

CONVERSIONS: (litres = U.S. Gal x 3.785) (U.S.Gal = litres x 0.2642) These guidelines 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 emer gency. 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: UNLIMITED TIME RUNNING PRIME POW

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 capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year

Utilities and a provide or operation. Total operating time are to a very adaptive small include very exact and a provide state of a very state of the state of th

ceed 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 Con tinuous Power rating. <u>CONTINUOUS POWER RATING</u>. 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. 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 temperature, 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:

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cummins		Cummins Inc.			Basic Engine Model: QSK23-G3		G-DRIVE
CU		Columbus, Indiana	a 47201	Engine Cr	itical Parts List:	Date:	2
	Engine Data		Sheet	CPI	CPL: 8352		
Displacement : 2	3.15 litre (1413 in ³)	Bore : 170 mm ((6.69 in.) Stroke : *	170 mm (6.69 in.)		
No. of Cylinders	: 6		Aspiration : Turk	piration : Turbocharged and Air to Air Aftercooled			
Engine Spe	eed	Standb	y Power	Prime	Power	Continuous Power	
RPM		kWm	BHP	kWm	BHP	kWm	BHP
1500		768	1030	701	940	537	720
1800		895	1200	809	1085	652	875

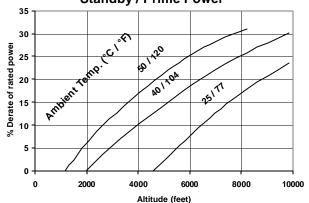
Emissions Certification (1800 RPM Only)

"For mobile applications in the U.S. and Canada, this rating may only be sold in accordance with the OEM TPEM provisions of 40 CFR 89.102. For stationary applications in the U.S. (except California), this rating may be sold through 2006 under the NSPS provisions of 40 CFR Part 60."

Engine Performance Data @ 1800 RPM

Ουτι	OUTPUT POWER		FUEL CONSUMPTION			ON		
%	kWm	BHP	kg/ kWm∙h	lb/ BHP∙h	litre/ hour	U.S. Gal/ hour		
STAN	STANDBY POWER							
100	895	1200	0.201	0.332	212	56.1		
PRIM	E POWE	R						
100	809	1085	0.199	0.326	189	49.8		
75	607	814	0.195	0.320	139	36.7		
50	405	543	0.204	0.336	97	25.7		
25	202	271	0.236	0.385	56	14.7		
CONT	CONTINUOUS POWER							
100	653	875	0.194	0.320	149	39.4		

Power Derate Curves @ 1800 RPM Standby / Prime Power



60.0 1800 RPM 50.0 40.0 30.0 20.0 10.0 0.0 250 0 500 750 1000 125 Gross Engine Output - BHP **Continuous Power** 35 30 powe ردر 25 mbientTemp rated 20 120 Derate of 15 40/104 50 10

U.S. Gallons / hour

25171 5 0 2000 4000 12000 0 6000 8000 10000 Altitude (feet)

Operation At Elevated Temperature And Altitude:

For sustained operation above these conditions, derate by an additional 5.0% per 300 m (1000 ft), and 7% per 10° C (18° F).

CONVERSIONS: (litres = U.S. Gal x 3.785) (U.S.Gal = litres x 0.2642) These guidelines have been formulated to ensure proper application of generator drive engines in A.C. generator set in-

Data Subject to Change Without Notice Reference AEB 10.47 for determining Electrical Output

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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 alternator, fan, optional equipment and driven components.

Data Status: Limited Production Data Tolerance: ± 5%

Chief Engineer:

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standards. <u>STARDS I FONE KARDER AND ADDREEDED IN SUPPORT PROVIDED TO THE OUTLOOD TO THE OUTLOOD ADDREEDED TO THE OUTLOOD ADDREED TO THE OUTLOOD ADDREEDED TO THE OUTLOOD ADDREED T</u> 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 emer gency. <u>PRIME POWER RATING:</u> 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: <u>UNLIMITED TIME RUNNING PRIME POW</u>. 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 capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year Utilities and a provide or operation. Total operating time are to a very adaptive small include very exact and a provide state of a very state of the state of th ceed the Prime Power rating. The customer should be aware, however, that the life of any engine will be reduced by this ceed the rinker of a lating. The clasterier should be aware, inverter, that the net of any engine win be related by this constant high load operation. Any operation exceeding 750 hours per year at the Prime Power rating should use the Con tinuous Power rating. <u>CONTINUOUS POWER RATING</u>: 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.

stallations. STANDBY POWER RATING: Applicable for supplying emergency power for the duration of the utility power

Cummins Inc. Engine Data Sheet

	C	HEET: LP-50011 DATE: 16Jan06 JRVE: FR-50011
INSTALLATION DIAGRAM CPL NUMBER		
Fan to Flywheel : 3170553 Engine Critical Parts List	: 8352	
GENERAL ENGINE DATA		
Туре	Inline 6-Cylinder	Diesel
Aspiration	Turbocharged a	nd Low Temperature
	Aftercooled	
Bore x Stroke — mm x mm (in x in)	170 x 170 (6.69	x 6.69)
Displacement — litre (in ³)	23.15 (1413)	
Compression Ratio	16.0:1	
Dry Weight		
Fan to Flywheel Engine — kg (lb)	2755	(6060)
Wet Weight		
Fan to Flywheel Engine — kg (lb)	2805	(6170)
Moment of Inertia of Rotating Components		
• with (SAE 0)	11.6	(270)
Center of Gravity from Front Face of Block	725	(28.5)
Center of Gravity Above Crankshaft Centerline	240	(9.5)
Maximum Static Loading at Rear Main Bearing — kg (lb)	990	(2160)
3 (3)		
ENGINE MOUNTING		
Maximum Bending Moment at Rear Face of Block M • m (lb • ft)	3205	(2340)
EXHAUST SYSTEM		
	70.0	(2)
Maximum Back Pressure — mm Hg (in Hg)	76.2	(3)
AIR INDUCTION SYSTEM		
Maximum Intake Air Restriction:		
• with Dirty Filter Element	635	(25)
with Clean Filter Element	381	(15)
	301	(10)
COOLING SYSTEM		
Coolant Capacity — Engine Only — litre (US gal)	46.5	(12.3)
Minimum Pressure Cap	69	(10)
Jacket Water Circuit Requirements	10.2	(60)
Maximum Static Head of Coolant Above Engine Crank Centerline	18.3	(60)
Standard Thermostat (Modulating) Range	76.5-90	(170 - 194)
Maximum Top Tank Temperature for Standby . Prime Power — °C (°F)	104 - 100	(220 - 212)
Maximum Coolant Friction Head External to the Engine - 1800 RPM kPa (psi)	48	(7)
-1500 RPM — kPa (psi)	34	(5)
Air-to-Air Core Requirements		
Maximum Temp. Rise Between Engine Air Intake and Intake Manifold —1500 / 1800 rpm — °C (°F)	33	(60)
Maximum Air Press. Drop from Turbo Air Outlet to Intake Manifold — 1500 / 1800 rpm — mm Hg (in Hg)	102	· · ·
אינגאורועוד אור רפא. בוסף ווסוד דעוסט אורסעופרנט ווונמגיפ ואמוווטע — דסטט דוסטט דףוד – דוווד דע (ווד דע)	102	(4)
LUBRICATION SYSTEM		
Oil Pressure @ Idle Speed — kPa (psi)	145	(21)
@ Governed Speed — kPa (psi)	345 - 448	(50 - 65)
Maximum Oil Temperature	120	(248)
Oil Capacity with OP TBD Oil Pan : Low - High	66 - 95	(17 - 25)
Total System Capacity (With Combo Filters) — litre (US gal)	74 - 103	(19 - 27)
		(

FUEL SYSTEM					G-DR
Type Injection System				Cummir	IS HPI-PT
	el Filter			120	(4.0)
	I Filter			203	(8.0)
Maximum Allowable Head on Injector Return Line (Consisting of F				229	(9.0)
Maximum Inlet Temperature		· · · · · · · · · · · · · · · · · · ·	— °C (°F)	70	(160)
Maximum Fuel Flow to Injection Pump		— litre	/ hr (US gph)	684	(181)
Maximum Drain Flow		— litre	/ hr (US gph)	662	(175)
ELECTRICAL SYSTEM					
Cranking Motor (Heavy Duty, Positive Engagement)			volt		24
Battery Charging System, Negative Ground				:	35
Maximum Allowable Resistance of Cranking Circuit			— ohm	0.0	02
Minimum Recommended Battery Capacity					
Cold Soak @ 10 °C (50 °F) and Above				120	00
 Cold Soak @ 0 °C to 10 °C (32 °F to 50 °F) 				128	80
• Cold Soak @ -18 °C to 0 °C (0 °F to 32 °F)			— 0°F CCA	18	00
COLD START CAPABILITY					
Minimum Ambient Temperature for Cold Start with 1500 watt Cool	ant Heater to Rated S	peed	— °C (°F)	-30	(-22)
Minimum Ambient Temperature for Unaided Cold Start to Idle Spe		•	. ,	0	(32)
Minimum Ambient Temperature for NFPA 110 Cold Start (90° F M PERFORMANCE DATA	/linimum Coolant Tem	perature)	— °C (°F)	10	(50)
 All data is based on: Engine operating with fuel system, was silencer; not included are battery cha Engine operating with fuel correspond ISO 3046, Part 1, Standard Reference 	rging alternator, fan, a ding to grade No. 2-D	nd optional driven co			
Barometric Pressure : 100 kPa	a (29.53 in Hg)	Air Temperature	: 25 °C (77 °F)		
Altitude : 110 m (361 ft)	Relative Humidity	: 30%		
Air Intake Restriction : 381 mm	n H ₂ O (15 in H ₂ O)	Exhaust Restriction	: 51 mm Hg (2 i	ו Hg)	
Steady State Stability Band at any Constant Load				+/- 0.25	
Estimated Free Field Sound Pressure Level of a Typical Generator					
Excludes Exhaust Noise; at Rated Load and 7.5 m (24.6 ft); @			— dBA	TBD	
Exhaust Noise at 1 m Horizontally from Centerline of Exhaust Pipe	Outlet Upwards at 45	۰	— dBA	TBD	
	STAND	STANDBY POWER		E POWER	
	60 hz	50 hz	60 hz	50 hz	:
		1		1	

	60 hz 50 hz		60 hz	50 hz	
Governed Engine Speed mpm	1800	1500	1800	1500	
Engine Idle Speed mpm	750	750	750	750	
Gross Engine Power Output — kW _m (BHP)	895 (1200)	768 (1030)	809 (1085)	701 (940)	
Brake Mean Effective Pressure — kPa (psi)	2600 (377)	2675 (388)	2350 (341)	2441 (354)	
Piston Speed m / s (ft / min)	10.3 (2010)	8.6 (1675)	10.3 (2010)	8.6 (1675)	
Friction Horsepower — kW _m (HP)	93 (124)	72 (96)	93 (124)	72 (96)	
Engine Jacket Water Flow at Stated Friction Head External to Engine:					
 3 psi Friction Head 	10.4 (165)	7.6 (120)	10.4 (165)	7.9 (126)	
Maximum Friction Head Hitre / s (US gpm)	10.1 (160)	7.6 (120)	10.1 (160)	7.6 (120)	
Engine Data					
Intake Air Flow — litre / s (cfm)	1132 (2398)	888 (1882)	1094 (2318)	815 (1720)	
Exhaust Gas Temperature — °C (°F)	514 (957)	543 (1010)	467 (872)	532 (990)	
Exhaust Gas Flow hitre / s (cfm)	3056 (6475)	2463 (5218)	2773 (5875)	2259 (4786)	
Air-to-Fuel Ratio air : fuel	25.5 : 1	23.8 : 1	27.6 : 1	25.3 : 1	
Radiated Heat to Ambient	85 (4862)	71 (4058)	76 (4313)	65 (3682)	
Heat Rejection to Jacket Water Coolant — kW _m (BTU / min)	269 (15305)	222 (12636)	235 (13358)	215 (12252)	
Heat Rejection to Exhaust — kW _m (BTU / min)	656 (37334)	570 (32417)	569 (32392)	507 (28877)	
Heat Rejection to Fuel*	9.1 (520)	6.8 (387)	9.1 (520)	6.8 (387)	
Charge Air Cooler Heat Rejection — kW _m (BTU / min)	223 (12673)	146 (8329)	198 (11270)	122 (6944)	
Turbo Compressor Outlet Temperature — °C (°F)	227 (440)	199 (390)	209 (408)	182 (360)	
Turbo Compressor Outlet Pressure — kPa (psi)	283 (41)	248 (36)	269 (39)	214 (31)	

* This is the maximum heat rejection to fuel, which is at low load N.A. - Not Available

N/A - Not Applicable to this Engine

TBD - To Be Determined



G-DRIVE

Columbus, Indiana 47202-3005