

GUANGDONG FUDIANKANG DIESEL GENSET CO., LTD SHENZHEN FUDIANKANG DIESEL GENESET CO., LTD

Tel: 86-13710087995 Email: info@fdkenergy.com

Web: www.fdkenergy.com

DATA SHEET

DIESEL GENERATOR 1100KW

MODEL#FDK-CC1375/H1

50HZ/1500RPM

CUMMINS MODEL: KTA50-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.

FDK Diesel Generator Set Data

| Genset Model | FDK-CC1375/H1 |
|--------------------------------|----------------|
| Prime Power | 1000KW/1250KVA |
| Standby Power | 1100KW/1375KVA |
| Output Frequency / Rated speed | 50Hz/1500rpm |
| Rated Voltage | 230V/400V |

| Engine Make | Cummins CHINA |
|------------------|------------------|
| Engine Model | KTA50-G3 |
| Alternator model | Stamford LVI634G |
| 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.

Engine Specifications (DETAILED in APPENDIX)

| Engine Model | KTA50-G3 |
|----------------------|------------|
| Engine Manufacturer | Cummins |
| g | CHINA CCEC |
| | CHINA COLO |
| Cylinder quantity | 16 |
| Cylinder Arrangement | 60° Vee |
| Cycle | 4 |

| Aspiration | Turbo-charged |
|-------------------------------|---------------|
| Bore x Stroke (mm x mm) | 159×159 |
| Displacement | 50.3L |
| Compression Ratio | 13.9:1 |
| Prime power / Speed (KW/RPM) | 1150kw/1500 |
| Standby power/ Speed (KW/RPM) | 1227kw/1500 |







GUANGDONG FUDIANKANG DIESEL GENSET CO., LTD SHENZHEN FUDIANKANG DIESEL GENESET CO., LTD

Tel: 86-13710087995

| | | Web: www.fdkenergy.com E | mail: info@fdkenergy.com | |
|-----------------------------------|------------------|-------------------------------|--------------------------|--|
| Type Injection System | Cummins PT | Fuel Consumption at 100% load | 202 at 1500rpm | |
| | Direct Injection | (g/KWh) | | |
| Piston Speed | 7.9m/s | Starter motor | DC24V | |
| Friction Energy Output | 116kw | Low idle | 725-775pm | |
| Total Lubrication System Capacity | 177L | Coolant Capacity (L) | 161 | |

Alternator Specifications

| Alternator model | LVI634G | 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 | 1250KVA | 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.







GUANGDONG FUDIANKANG DIESEL GENSET CO., LTD SHENZHEN FUDIANKANG DIESEL GENESET CO., LTD

Tel: 86-13710087995

Web: www.fdkenergy.com Email: info@fdkenergy.com

Optional

| Gen | erator 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 | | | | |
| Fuel 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

| Overall Size: | 4900×2150×2450 |
|---------------|----------------|
| L×W×H (mm) | |
| Weight (kg) | 10300 |

Soundproof Version

| Overall Size: | 40FT CONTAINER |
|---------------|----------------|
| L×W×H (mm) | |
| Weight (kg) | 22000 |

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 ENGINE COMPANY, INC

Columbus, Indiana 47201

ENGINE PERFORMANCE CURVE

Basic Engine Model: KTA50-G3

Curve Number: FR-6250

Page No.

Engine Critical Parts List:

CPL: 2227

Date: **12Jan01**

Displacement: 50.3 litre (3067 in³)

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

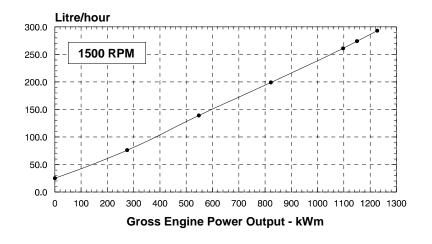
No. of Cylinders: 16

Aspiration: Turbocharged and Aftercooled

| Engine Speed Standby Power | | | Prime Pov | wer Rating | Continuous Power Rating | | | |
|----------------------------|--------|------|--------------|------------|----------------------------|------|----------------|------|
| Engine Speed | Rating | | Limited Time | | | | Unlimited Time | |
| RPM | kWm | ВНР | kWm | ВНР | kWm | ВНР | kWm | ВНР |
| 1500 | 1227 | 1645 | 1150 | 1541 | 1097 | 1470 | 900 | 1206 |
| 1800 | 1380 | 1850 | 1300 | 1742 | 1220 | 1635 | 1000 | 1340 |

Engine Performance Data @ 1500 RPM

| OUTPUT POWER | | | FUEL CONSUMPTION | | | | |
|------------------|--------|--------------|------------------|---------|-------------------|------|--|
| % kWm BHP | | kg/ kWm∙h | • | | U.S. Gal/ hour | | |
| STANE | BY POW | /ER | | | | • | |
| 100 | 1227 | 1645 | 0.203 | 0.334 | 293 | 77.4 | |
| PRIME | LIMITI | ED TIME | RUNNING | POWER | | | |
| 100 | 1150 | 1541 | 0.202 | 0.333 | 274 | 72.3 | |
| PRIME | UNLII | MITED TI | ME RUNNI | NG POWE | ₹ | | |
| 100 | 1097 | 1470 | 0.202 | 0.333 | 261 | 69.0 | |
| 75 | 822 | 1102 | 0.206 | 0.338 | 199 | 52.5 | |
| 50 | 548 | 735 | 0.216 | 0.355 | 139 | 36.6 | |
| 25 | 275 | 368 | 0.234 | 0.385 | 76 | 20.0 | |
| CONTINUOUS POWER | | | | | | | |
| 100 | 900 | 1206 | 0.204 | 0.336 | 216 | 57.1 | |



CONVERSIONS:

(Litres = U.S. Gal x 3.785)

 $(kWm = BHP \times 0.746)$

 $(U.S. Gal = Litres \times 0.2642)$

(BHP = Engine kWm x 1.34)

These guidelines have been formulated to ensure proper application of generator drive engines in A.C. generator set installations. Generator drive engines are not designed for and shall not be used in variable speed D.C. generator set applications.

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:

UNLIMITED TIME RUNNING PRIME POWER

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 power shall not exceed 25 hours per year.

LIMITED TIME RUNNING PRIME POWER

Limited Time Prime Power is available for a limited number of hours 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 Limited Time 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.

Data shown above represent gross engine performance capabilities obtained and corrected in accordance with ISO-3046 conditions of 100 kPa (29.5 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. See reverse side for application rating guidelines.

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.

TECHNICAL DATA DEPT. CERTIFIED WITHIN 5% CHIEF ENGINEER



Displacement: 50.3 litre (3067 in³)

CUMMINS ENGINE COMPANY, INC

Columbus, Indiana 47201

ENGINE PERFORMANCE CURVE

Basic Engine Model: KTA50-G3 Curve Number: FR-6250

Page No.

Engine Critical Parts List:

CPL: 2227

Stroke: 159 mm (6.25 in.)

Date: **12Jan01**

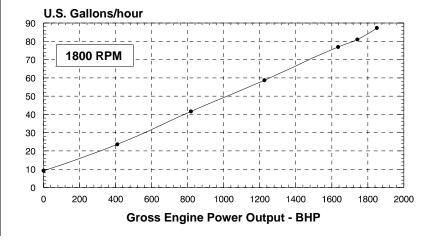
| | | Standby Power | Prime Power Rating | Continuous Power | | |
|-----------------------|--|---------------|---|------------------|--|--|
| | | | | | | |
| No. of Cylinders : 16 | | | Aspiration : Turbocharged and Aftercooled | | | |

Bore: 159 mm (6.25 in.)

| Engine Speed | Speed Standby Power Rating | | Prime Power Rating | | | | Continuous Power | |
|--------------|----------------------------|------|--------------------|------|----------------|------|------------------|------|
| Engine Speed | | | Limited Time | | Unlimited Time | | Rating | |
| RPM | kWm | ВНР | kWm | ВНР | kWm | ВНР | kWm | ВНР |
| 1500 | 1227 | 1645 | 1150 | 1541 | 1097 | 1470 | 900 | 1206 |
| 1800 | 1380 | 1850 | 1300 | 1742 | 1220 | 1635 | 1000 | 1340 |

Engine Performance Data @ 1800 RPM

| OUT | PUT PO | WER | FUEL CONSUMPTION | | | | | |
|------------------|----------------------------------|-------------|------------------------|---------|----------------|-------------------|--|--|
| % kWm BHP | | ВНР | kg/ lb/ kWm·h BHP·h | | litre/ hour | U.S. Gal/ hour | | |
| STANDBY POWER | | | | | | | | |
| 100 | 1380 | 1850 | 0.204 | 0.335 | 330 | 87.3 | | |
| PRIME | PRIME LIMITED TIME RUNNING POWER | | | | | | | |
| 100 | 1300 | 1742 | 0.203 | 0.334 | 310 | 81.0 | | |
| PRIME | UNLII | MITED TI | ME RUNNI | NG POWE | ₹ | | | |
| 100 | 1220 | 1635 | 0.203 | 0.334 | 291 | 76.9 | | |
| 75 | 915 | 1226 | 0.207 | 0.340 | 222 | 58.7 | | |
| 50 | 610 | 818 | 0.220 | 0.361 | 157 | 41.6 | | |
| 25 | 305 | 409 | 0.249 | 0.410 | 89 | 23.6 | | |
| CONTINUOUS POWER | | | | | | | | |
| 100 1000 1340 | | 0.206 0.338 | | 242 | 63.8 | | | |



CONVERSIONS:

(Litres = U.S. Gal x 3.785)

 $(kWm = BHP \times 0.746)$

 $(U.S. Gal = Litres \times 0.2642)$

(BHP = Engine kWm x 1.34)

These guidelines have been formulated to ensure proper application of generator drive engines in A.C. generator set installations. Generator drive engines are not designed for and shall not be used in variable speed D.C. generator set applications.

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:

UNLIMITED TIME RUNNING PRIME POWER

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 power shall not exceed 25 hours per year.

LIMITED TIME RUNNING PRIME POWER

Limited Time Prime Power is available for a limited number of hours 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 Limited Time 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.

Data shown above represent gross engine performance capabilities obtained and corrected in accordance with ISO-3046 conditions of 100 kPa (29.5 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. See reverse side for application rating guidelines.

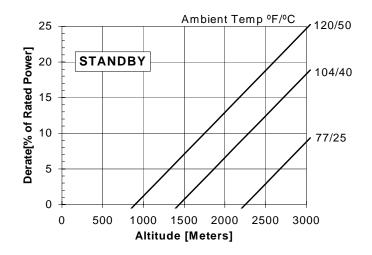
The fuel consumption data is based on No. 2 diesel fuel weight at 0.85 kg/litre (7.1 lbs/U.S. gal).

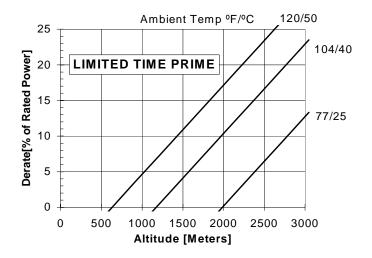
Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan, optional equipment and driven components.

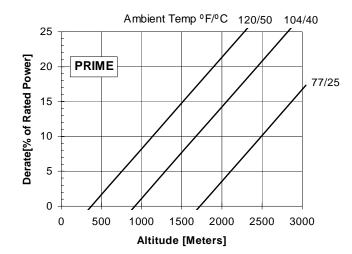
TECHNICAL DATA DEPT. CERTIFIED WITHIN 5% CHIEF ENGINEER

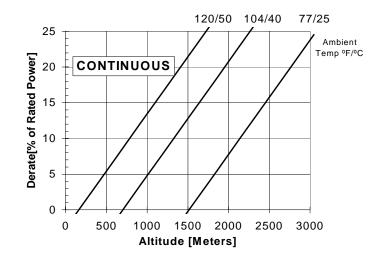
KTA50-G3 Derate Curves @ 1500 RPM

CURVE NO: FR-6250 **DATE**: 12Jan01









NOTE: Derates shown are based on 15 in H₂0 air intake restriction and 2 in Hg exhaust back pressure.

For sustained operation above these conditions, derate by an additional 5% per 1000 ft (300 m) and 9% per 18° F (10° C).

Cummins Engine Company, Inc. Engine Data Sheet

DATA SHEET: DS-6250 DATE: 12Jan01 PERFORMANCE CURVE: FR-6250 **ENGINE MODEL: KTA50-G3 CONFIGURATION NUMBER:** D283021DX02

INSTALLATION DIAGRAM • Fan to Flywheel : 3626420 <u>CPL NUMBER</u>Engine Critical Parts List : 2227

| Type | 4-Cycle; 60° Ve | | |
|--|------------------|------------------|-------|
| Aspiration | Turbocharged a | and Aftercoole | ed |
| Bore x Stroke — in x in (mm x mm) | 6.25 x 6.25 (159 | 9 x 159) | |
| Displacement— in ³ (liter) | 3067 (50.3) | | |
| Compression Ratio | 13.9 : 1 | | |
| Dry Weight | | | |
| Fan to Flywheel Engine — lb (kg) | 11820 | (5360) | |
| Heat Exchanger Cooled Engine — lb (kg) | 12260 | (5560) | |
| Wet Weight | | | |
| Fan to Flywheel Engine | 12485 | (5662) | |
| Heat Exchanger Cooled Engine — lb (kg) | 13085 | (5934) | |
| Moment of Inertia of Rotating Components | | | |
| • with FW 6009 Flywheel | 301 | (12.7) | |
| • with FW 6017 Flywheel | 515 | (21.7) | |
| Center of Gravity from Rear Face of Flywheel Housing (FH 6024) | 47.5 | (1206) | |
| Center of Gravity Above Crankshaft Centerline | 11.0 | (279) | |
| Maximum Static Loading at Rear Main Bearing— lb (kg) | 2000 | (908) | |
| NGINE MOUNTING | | | |
| Maximum Bending Moment at Rear Face of Block — lb • ft (N • m) | 4500 | (6100) | |
| XHAUST SYSTEM | | | |
| Maximum Back Pressure @ Standby Power Rating — in Hg (mm Hg) | 2 | (51) | |
| IR INDUCTION SYSTEM | | | |
| Maximum Intake Air Restriction | | | |
| • with Dirty Filter Element @ Standby Power Rating — in H ₂ O (mm H ₂ O) | 25 | (635) | |
| • with Clean Filter Element @ Standby Power Rating — in H ₂ O (mm H ₂ O) | 15 | (381) | |
| OOLING SYSTEM | | | |
| Coolant Capacity — Engine Only — US gal (liter) | 42.5 | (161) | |
| Maximum Coolant Friction Head External to Engine — 1800 rpm — psi (kPa) | 15 | (101) | |
| — 1500 rpm — psi (kPa) | 10 | ` | |
| | _ | (69) | |
| Maximum Static Head of Coolant Above Engine Crank Centerline | 60 | (18.3) | |
| Standard Thermostat (Modulating) Range | 180 - 200 | (82 - 93) | |
| Minimum Pressure Cap (For Cooling Systems with less than 2 m [6 ft.] Static Head) — psi (kPa) | 14 | (96) | |
| Maximum Top Tank Temperature for Standby / Prime Power | 220 / 212 | (104 / 100) | |
| UBRICATION SYSTEM | | | |
| Oil Pressure @ Idle Speed—psi (kPa) | 20 | (138) | |
| @ Governed Speed — psi (kPa) | 50 - 70 | (345 - 483) | |
| Maximum Oil Temperature — $^{\circ}$ F ($^{\circ}$ C) | 250 | (121) | |
| Oil Capacity with OP 6024 Oil Pan : High - Low — US gal (liter) | 40 - 32 | (151 - 121) | |
| Total System Capacity (Including Bypass Filter) | 46.7 | (177) | |
| Angularity of OP 6024 Oil Pan — Front Down | | 30° | |
| — Front Up | | 30° | |
| — Side to Side | | 30° | |
| UEL SYSTEM | | | |
| Type Injection System | | Direct Injection | Cumm |
| Maximum Restriction at PT Fuel Injection Pump — with Clean Fuel Filter — | in Hg (mm Hg) | 4.0 | (102) |
| — with Dirty Fuel Filter— | | 8.0 | (203) |
| Maximum Allowable Head on Injector Return Line (Consisting of Friction Head and Static Head) — | | | (165) |
| | | | |

ELECTRICAL SYSTEM

| Cranking Motor (Heavy Duty, Positive Engagement) — volt | 24 | |
|--|-------|------|
| Battery Charging System, Negative Ground — ampere | 35 | |
| Maximum Allowable Resistance of Cranking Circuit | 0.002 | |
| Minimum Recommended Battery Capacity | | |
| • Cold Soak @ 50 °F (10 °C) and Above — 0°F CCA | 1280 | |
| • Cold Soak @ 32 °F to 50 °F (0 °C to 10 °C) | 1800 | |
| • Cold Soak @ 0 °F to 32 °F (-18 °C to 0 °C) | 1800 | |
| COLD START CAPABILITY | | |
| Minimum Ambient Temperature for Aided (with Coolant Heater) Cold Start within 10 seconds | 50 | (10) |
| Minimum Ambient Temperature for Unaided Cold Start | 45 | (7) |

PERFORMANCE DATA

All data is based on:

- 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%

+/- 0.25 Estimated Free Field Sound Pressure Level of a Typical Generator Set; 94.6 / 92.4 Exhaust Noise at 1 m Horizontally from Centerline of Exhaust Pipe Outlet Upwards at 45° — 1800 / 1500 rpm..... dBA 126 / 125

| Governed Engine Speedrpm |
|---|
| Engine Idle Speed — rpm |
| Gross Engine Power Output BHP (kW _m) |
| Brake Mean Effective Pressure — psi (kPa) |
| Piston Speed ft / min (m / s) |
| Friction Horsepower — HP (kW _m) |
| Engine Water Flow at Stated Friction Head External to Engine: |
| • 4 psi Friction Head — US gpm (liter / s) |
| Maximum Friction Head — US gpm (liter / s) |

| Iviaximum Friction Head | |
|---------------------------------|------------------------------|
| Engine Data with Dry Type Exhau | st Manifold |
| Intake Air Flow | cfm (liter / s) |
| Exhaust Gas Temperature | |
| Exhaust Gas Flow | cfm (liter / s) |
| Air to Fuel Ratio | — air : fuel |
| Radiated Heat to Ambient | BTU / min (kW _m) |
| Heat Rejection to Coolant | BTU / min (kW _m) |
| Heat Rejection to Exhaust | BTU / min (kW _m) |
| | |

| <u>STANDBY</u> <u>POWER</u> 60 hz 50 hz | | | | PRIME POWER UNLIMITED TIME 60 hz 50 hz | | | | |
|---|-----------|-----------|--------|--|--------|-----------|--------|--|
| | 1800 1500 | | 1800 | | 1500 | | | |
| 725 | 5 - 775 | 725 - 775 | | 725 - 775 | | 725 - 775 | | |
| 1850 | (1380) | 1645 | (1227) | 1635 | (1220) | 1470 | (1097) | |
| 265 | (1827) | 283 | (1951) | 235 | (1620) | 253 | (1744) | |
| 1875 | (9.5) | 1562 | (7.9) | 1875 | (9.5) | 1562 | (7.9) | |
| 225 | (168) | 155 | (116) | 225 | (168) | 155 | (116) | |
| | | | | | | | | |
| 535 | (33.7) | 440 | (27.8) | 535 | (33.7) | 440 | (27.8) | |
| 470 | (29.6) | 400 | (25.2) | 470 | (29.6) | 400 | (25.2) | |
| | | | | | | | | |
| 3900 | (1840) | 3700 | (1746) | 3700 | (1746) | 3400 | (1605) | |
| 887 | (475) | 977 | (525) | 860 | (460) | 968 | (520) | |
| 9100 | (4295) | 8500 | (4011) | 8400 | (3964) | 7900 | (3728) | |
| 26.5 : 1 | | 27.0 : 1 | | 27.5 : 1 | | 28.0 : 1 | | |
| 10000 | (176) | 8500 | (150) | 8500 | (150) | 7300 | (130) | |
| 51000 | (900) | 44000 | (775) | 44000 | (775) | 38500 | (680) | |
| 53000 | (935) | 48000 | (845) | 47000 | (830) | 43000 | (760) | |
| | | | | | | | | |

N.A. - Data is Not Available

N/A - Not Applicable to this Engine

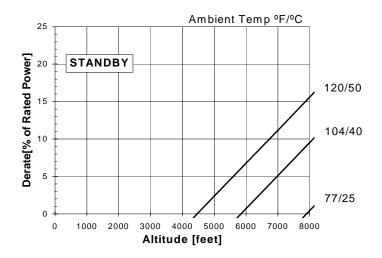
TBD - To Be Determined

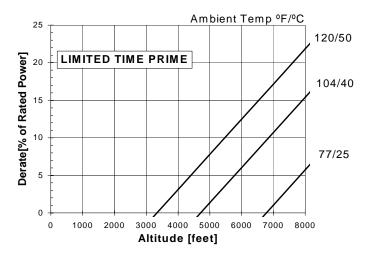
ENGINE MODEL: KTA50-G3

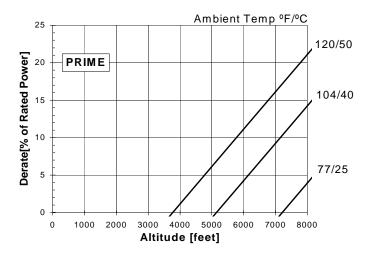
DATA SHEET: DS-6250 **DATE**: 12Jan01 CURVE NO.: FR-6250

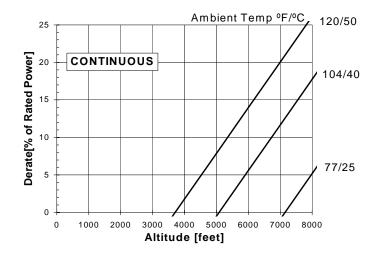
KTA50-G3 Derate Curves @ 1800 RPM

CURVE NO: FR-6250 **DATE**: 12Jan01









NOTE: Derates shown are based on 15 in H₂0 air intake restriction and 2 in Hg exhaust back pressure.

For sustained operation above these conditions, derate by an additional 6% per 1000 ft (300 m) and 8% per 18° F (10° C).