Specification sheet



KTA50-G8



Description

The KTA50-Series benefits from years of technical development and improvement to bring customers an innovative and future proof diesel engine that keeps pace with ever changing generator set requirements.

Recognised globally for its performance under even the most severe climatic conditions, the KTA50-Series is widely acknowledged as the most robust and cost-effective diesel engine in its power range for the generator set market.

Features

Coolpac Integrated Design - Products are supplied complete with cooling package and air cleaner kit for a complete power package. Each component has been specifically developed and rigorously tested for G-Drive products, ensuring high performance, durability and reliability.

Aftercooler – Large capacity integral aftercoolers are supplied with cooling water separate from the engine jacket. This provides cooler, denser intake air for more complete combustion and reduced engine stresses for longer life and low exhaust emissions.

Cooling System – A two pump, two loop system must be employed; i.e. the engine jacket is cooled by one radiator or heat exchanger and the aftercoolers are cooled by a separate radiator or heat exchanger.

Pistons – Pistons are dual Ni-resist, aluminium alloy, ground and shaped to compensate for thermal expansion, which assures a precise fit at all normal operating temperatures.

Service and Support - G-Drive products are backed by an uncompromising level of technical support and after sales service, delivered through a world class service network.

Codes and standards



This engine has been built to comply with CE certification.



This engine has been designed in facilities certified to ISO9001 and manufactured in facilities certified to ISO9001 or ISO9002.

1500 rpm (50 Hz Ratings)

| Gross Engine Output | | | Net Engine Output | | | Typical Generator Set Output | | | | | |
|---------------------|-----------|-----------|-------------------|-----------|-----------|------------------------------|-------|-------|-------|------|-------|
| Standby | Prime | Base | Standby | Prime | Base | Standby | (ESP) | Prime | (PRP) | Base | (COP) |
| kWm/BHP | | | kWm/BHP | | kWe | kVA | kWe | kVA | kWe | kVA | |
| 1429/1915 | 1200/1608 | 1100/1475 | 1397/1872 | 1168/1566 | 1068/1432 | 1340 | 1675 | 1120 | 1400 | 1025 | 1282 |

General Engine Data

| Туре | 4 cycle, 60° Vee, Turbocharged and Aftercooled | | | |
|-----------------------------|---|--|--|--|
| Bore, mm | 159 | | | |
| Stroke, mm | 159 | | | |
| Displacement, Litre | 50.3 | | | |
| Cylinder Block | 16-cylinder,direct injection, 4-cycle diesel engine | | | |
| Battery Charging Alternator | 35A | | | |
| Starting Voltage | 24V | | | |
| Fuel System | Direct injection Cummins PT | | | |
| Fuel Filter | Dual spin on paper element fuel filters with standard water separator | | | |
| Lube Oil Filter Type(s) | Spin on full flow filter | | | |
| Lube Oil Capacity (I) | 178 | | | |
| Flywheel Dimensions | SAE #0 | | | |

Coolpac Performance Data

| Cooling System Design | 2 pump - 2 loop | | |
|----------------------------------|--|--|--|
| Coolant Ratio | 50% ethylene glycol; 50% water | | |
| Coolant Capacity (I) | 496 | | |
| Limiting Ambient Temp.(°C)** | 48 | | |
| Fan Power (kWm) | 32 | | |
| Cooling system air flow (m³/s)** | 28.8 | | |
| Air Cleaner Type | Dry replaceable element with restriction indicator | | |

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Weight and Dimensions

| Length | Width | Height | Weight (dry) | | |
|--------|-------|--------|--------------|--|--|
| mm | mm | mm | kg | | |
| 3720 | 2000 | 2516 | 6580 | | |

Fuel Consumption 1500 (50 Hz)

| | | | • | | | |
|------------------|------|------|------|-----------|--|--|
| % | kWm | BHP | L/hr | US gal/hr | | |
| Standby Power | | | | | | |
| 100 | 1429 | 1915 | 345 | 91.2 | | |
| Prime Power | | | | | | |
| 100 | 1200 | 1608 | 289 | 76.3 | | |
| 75 | 900 | 1206 | 222 | 58.7 | | |
| 50 | 600 | 804 | 155 | 40.9 | | |
| 25 | 300 | 402 | 82 | 21.7 | | |
| Continuous Power | | | | | | |
| 100 | 1100 | 1475 | 266 | 70.4 | | |

Cummins G-Drive Engines

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Ratings Definitions

Emergency Standby Power (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-Time Running Power (LTP):

Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

Prime Power (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base Load (Continuous) Power (COP):

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.