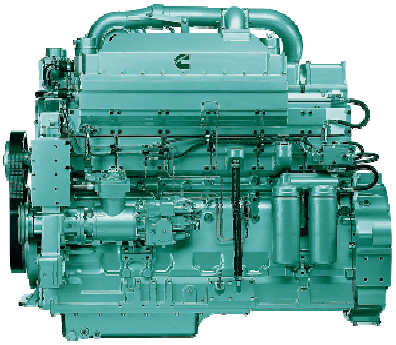
# KTA19-G4



> Specification sheet

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## Description

The KTA19-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 KTA19-Series is widely acknowledged as the most robust and cost-effective diesel engine in its power range for the generator set market.

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.

## Features

**Turbocharger** – Cummins Turbo technologies (CTT) exhaust gas driven turbocharger mounted at top of engine.

**Fuel System** – Cummins PT™ self-adjusting system. Integral dual flyweight governor provides overspeed protection independent of main governor.

**Aftercooler** – Large capacity aftercooler results in cooler, denser intake air for more efficient combustion and reduced internal stresses for longer life.

**Cylinder Block** – Alloy cast iron with removable wet liners. Cross bolt support to main bearing cap provides extra strength and stability.

**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.

## 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 |
| 504/675 | 488/600 | 355/475 | 479/642 | 428/573 | 335/449 | 440 | 550 | 400 | 500 | 315 | 393 |

## 1800 rpm (60 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 |
| 563/755 | 507/680 | 429/575 | 520/697 | 470/630 | 392/525 | 500 | 625 | 455 | 569 | 368 | 460 |

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## General Engine Data

| | |
|---|---|
| Type | 4 cycle, in-line, Turbo Charged |
| Bore mm | 159 |
| Stroke mm | 159 |
| Displacement Litre | 18.9 litre |
| Cylinder Block | Cast iron, 6 cylinder |
| Battery Charging Alternator | 35A |
| Starting Voltage | 24V |
| Fuel System | Direct injection |
| Fuel Filter | Spin-on fuel filters with water separator |
| Lube Oil Filter Type(s) | Spin-on full flow filter |
| Lube Oil Capacity (l) | 50 |
| Flywheel Dimensions | SAE 0 |

## Coolpac Performance Data

| | |
|---|---|
| Cooling System Design | Jacket Water After Cooled |
| Coolant Ratio | 50% ethylene glycol; 50% water |
| Coolant Capacity (l) | Engine only – not applicable |
| Limiting Ambient Temp (°C)** | |
| Fan Power (kWm) | |
| Cooling System Air Flow ($m^3/s$)** | |
| Air Cleaner Type | Dry replaceable element with restriction indicator |

** @ 13 mm $H^20$

## 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.

## Weight & Dimensions

| Length | Width | Height | Weight (dry) |
|---|---|---|---|
| mm | mm | mm | kg |
| 1859 | 868 | 1728 | 1855 |

## Fuel Consumption 1500 rpm (50 Hz)

| % | kWm | BHP | L/ph | US gal/ph |
|---|---|---|---|---|
| **Standby Power** | | | | |
| **100** | 504 | 675 | 121 | 31.9 |
| **Prime Power** | | | | |
| **100** | 448 | 600 | 107 | 28.4 |
| **75** | 336 | 450 | 82 | 21.6 |
| **50** | 224 | 300 | 57 | 14.9 |
| **25** | 112 | 150 | 30 | 8.1 |
| **Continuous Power** | | | | |
| **100** | 355 | 475 | 86 | 22.8 |

## Fuel Consumption 1800 rpm (60 Hz)

| % | kWm | BHP | L/ph | US gal/ph |
|---|---|---|---|---|
| **Standby Power** | | | | |
| **100** | 563 | 755 | 136 | 35.9 |
| **Prime Power** | | | | |
| **100** | 507 | 680 | 122 | 32.3 |
| **75** | 380 | 510 | 94 | 24.8 |
| **50** | 254 | 340 | 65 | 17 |
| **25** | 127 | 170 | 36 | 9.6 |
| **Continuous Power** | | | | |
| **100** | 429 | 575 | 104 | 27.3 |


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