

# KTA38-G4



Typical picture

> Specification sheet



Our energy working for you.™

## Description

The KTA38-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.

Recognized globally for its performance under even the most severe climatic conditions, the KTA38-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

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

**Fuel System** – Cummins exclusive low pressure PT™ system with wear compensating pump and integral dual flyweight governor. Camshaft actuated fuel injectors give accurate metering and timing. Fuel lines are internal drilled passages in cylinder heads. Spin-on fuel filter.

**Cooling System** – Gear driven centrifugal water pump. Large volume water passages provide even flow of coolant around cylinder liners, valves and injectors. Bypass thermostats regulate coolant temperature. Spin-on corrosion resistors check rust and corrosion, control acidity and remove impurities.

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

**Turbocharger** – Cummins Turbo Technologies (CTT) exhaust gas driven turbocharger mounted at top of engine provides more power, improved fuel economy, altitude compensation, and lower smoke and noise levels.

**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.

## 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
1112/1490	1007/1350	776/1040	1063/1425	969/1299	738/989	1000	1250	910	1138	700	875

Our energy working for you.™

[www.cumminsgdrive.com](http://www.cumminsgdrive.com)

©2013 | Cummins G-Drive Engines | Specifications Subject to Change Without Notice | Cummins is a registered trademark of Cummins Inc. EMERS-5818b-EN (11/13)



## General Engine Data

Type	4 cycle, Turbocharged and After-cooled
Bore mm	159
Stroke mm	159
Displacement Liter	38
Cylinder Block	12-cylinder, direct injection, 4-cycle diesel engine
Battery Charging Alternator	35A
Starting Voltage	24V
Fuel System	Direct injection, EFC (Electric Fuel control) governor
Fuel Filter	Dual spin on paper element fuel filters
Lube Oil Filter Type(s)	Spin on full flow filter
Lube Oil Capacity (l)	140
Flywheel Dimensions	SAE 0

## Coolpac Performance Data

Cooling System Design	JWAC
Coolant Ratio	50% ethylene glycol; 50% water
Total Coolant Capacity (l)	218.5
Limiting Ambient Temp (°C)**	50
Fan Power (kWm)	35
Cooling System Air Flow (m <sup>3</sup> /s)**	24.6
Air Cleaner Type	Dry replaceable element with restriction indicator

\*\* @ 13 mm H<sub>2</sub>O

## Weight & Dimensions

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
3172	1752	2004	4990

Note: Weights represent CoolPac with Light Duty Air Cleaner. See Outline drawings for weights and dimensions for Heavy Duty Air Cleaner configuration.

## Fuel Consumption 1800 rpm (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	1112	1490	271	71.5
<b>Prime Power</b>				
100	1007	1350	245	64.6
75	755	1012	190	50.1
50	504	675	136	36.0
25	252	338	81	21.5
<b>Continuous Power</b>				
100	776	1040	193	51.0

## Cummins G-Drive Engines

### Asia Pacific

10 Toh Guan Road  
#07-01  
TT International Tradepark  
Singapore 608838  
Phone 65 6417 2388  
Fax 65 6417 2399

### Europe, CIS, Middle East and Africa

Manston Park Columbus Ave  
Manston Ramsgate  
Kent CT12 5BF. UK  
Phone 44 1843 255000  
Fax 44 1843 255902

### Latin America

Rua Jati, 310, Cumbica  
Guarulhos, SP 07180-900  
Brazil  
Phone 55 11 2186 4552  
Fax 55 11 2186 4729

### Mexico

Cummins S. de R.L. de C.V.  
Eje 122 No. 200 Zona Industrial  
San Luis Potosí, S.L.P. 78090  
Mexico  
Phone 52 444 870 6700  
Fax 52 444 870 6811

### North America

1400 73rd Avenue N.E.  
Minneapolis, MN 55432  
USA  
Phone 1 763 574 5000  
USA Toll-free 1 877 769 7669  
Fax 1 763 574 5298

## 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.

Our energy working for you.™

[www.cumminsgdrive.com](http://www.cumminsgdrive.com)

©2013 | Cummins G-Drive Engines | Specifications Subject to Change Without Notice | Cummins is a registered trademark of Cummins Inc. EMERS-5818b-EN (11/13)

