KTA38-G5



Typical picture

> Specification sheet

Curumine

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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.

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	
970/1300	880/1180	656/880	937/1257	857/1149	633/849	880	1100	800	1000	600	750

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General Engine Data

Туре	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 with standard water separator		
Lube Oil Filter Type(s)	Spin on full flow filter		
Lube Oil Capacity (I)	140		
Flywheel Dimensions	SAE 0		

Coolpac Performance Data

Cooling System Design	JWAC		
Coolant Ratio	50% ethylene glycol; 50% water		
Total Coolant Capacity (I)	218.5		
Limiting Ambient Temp (°C)**	50		
Fan Power (kWm)	20		
Cooling System Air Flow (m ³ /s)**	18.9		
Air Cleaner Type	Dry replaceable element with restriction indicator		

^{** @ 13} mm H₂0

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 1500 rpm (50 Hz)

%	kWm	ВНР	L/ph	US gal/ph		
Standby Power						
100	970	1300	228	60.3		
Prime Power						
100	880	1180	209	55.1		
75	660	885	161	42.5		
50	440	590	113	29.9		
25	220	295	65	17.3		
Continuous Power						
100	656	880	158	41.7		

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

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,

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

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.

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

DIN 6271 and BS 5514.

Prime Power (PRP):

DIN 6271 and BS 5514.

ISO 8528.

BS 5514.

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

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