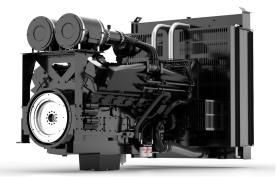
Specification Sheet



KTA50-G3



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.

Recognized 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.



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

This equipment has been designed and tested to meet EU product safety regulations. Material compliance declaration is available upon request **Cooling System –** A one 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.

1500 rpm (50 Hz Ratings)

Gross engine output		Net engine output		Typical generator set output							
Standby	Prime	Base	Standby	Prime	Base	Standb	y (ESP)	Prime	(PRP)	Base	(COP)
	kWm/BHP			kWm/BHP		kWe	kVA	kWe	kVA	kWe	kVA
1227/1645	1097/1470	900/1206	1188/1593	1071/1436	874/1172	1141	1426	1028	1285	839	1048

1800 rpm (60 Hz Ratings)

Gross engine output			Net engine output		Typical generator set output						
Standby	Standby Prime Base Standby Prime Base Standby (ESP		y (ESP)) Prime (PRP)		Base (COP)					
	kWm/BHP			kWm/BHP		kWe	kVA	kWe	kVA	kWe	kVA
1380/1850	1220/1635	1000/1340	1329/1781	1182/1585	962/1290	1262	1578	1123	1404	914	1143

General Engine Data

Fuel Rating	FR6250 (Standby) FR6120 (Prime)
Туре	4 cycle, 60-degree Vee, turbocharged, Low-temp aftercooled
Bore mm	159 mm (6.25 in.)
Stroke mm	159 mm (6.25 in.)
Displacement litre	50.3 litre (3067 in. ³)
Cylinder block	16 cylinder
Battery charging alternator	35 amps
Starting voltage	24-volt, negative ground
Fuel system	Cummins PT™ direct injection
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)	177
Flywheel dimensions	SAE 0

Coolpac Performance Data

Cooling system design	1 pump / 2 loop
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (I)	152.0
Limiting ambient temp.** (°C)	55.6 (50Hz); 51.0 (60Hz)
Fan power (kWm)	21.0 (50Hz); 36.0 (60Hz)
Cooling system air flow (m³/s)**	30.3 (50Hz); 34.6 (60Hz)
Air cleaner type	Dry replaceable element with restriction indicator

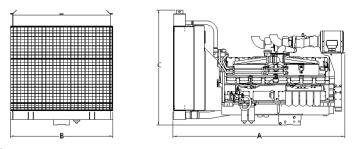
** @ 13 mm H₂0

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US Gal/Hr			
Standby Power							
100	1227	1645	293	77.4			
Prime Power							
100	1097	1470	261	69.0			
75	822	1102	199	52.5			
50	548	735	139	36.6			
25	275	368	76	20.0			
Continuous Power							
100	900	1206	216	57.1			

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/hr	US Gal/Hr			
Standby Power							
100	1380	1850	330	87.3			
Prime Power							
100	1220	1635	291	76.9			
75	915	1226	222	58.7			
50	610	818	157	41.6			
25	305	409	89	23.6			
Continuous Power							
100	1000	1340	242	63.8			



*Drawing for illustration purposes only.

Weights and Dimensions

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
3275	2000	2200	5900

Ratings Definitions

Emergency Standby	Limited-Time Running	Prime Power (PRP):	Base Load (Continuous)
Power (ESP):	Power (LTP):		Power (COP):
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.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	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.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuou Power (COP) in accordanc with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

For more information contact your local Cummins distributor or visit cummins.com



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