# KTA50-G9



## > Specification sheet

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## **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 costeffective 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.



**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.

**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 a 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.

## 1800 rpm (60 Hz Ratings)

Gross Engine Output			Net Engine Output			Typical Generator Set Output					
Standby	Prime	Base	Standby	Prime	Base	Standby	(ESP)	Prime	e (PRP)	Base	(COP)
kWm/BHP			kWm/BHP		kWe	kVA	kWe	kVA	kWe	kVA	
1656/2220	1384/1855	1224/1640	1605/1252	1349/1809	1189/1594	1500	1875	1295	1619	1141	1427

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## **General Engine Data**

Туре	4 cycle, in line, Turbocharged and After-cooled			
Bore mm	158.8			
Stroke mm	158.8			
Displacement Litre	50			
Cylinder Block	16-cylinder, direct injection, 4-cycle diesel engine			
Battery Charging Alternator	55A			
Starting Voltage	24V			
Fuel System	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)	204			
Flywheel Dimensions	SAE 0			

## **Coolpac Performance Data**

Cooling System Design	2 pump - 2 loop		
Coolant Ratio	50% ethylene glycol; 50% water		
Coolant Capacity (I)	240.0		
Limiting Ambient Temp (℃)**	50.0		
Fan Power (kWm)	33.0		
Cooling System Air Flow (m <sup>3</sup> /s)**	28.2		
Air Cleaner Type	Dry replaceable element with restriction indicato		
** @ 13 mm H <sup>2</sup> 0			

**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	
3497	2000	2703	6565	

## Fuel Consumption 1800 rpm (60 Hz)

%	% kWm		L/ph	US gal/ph		
Standby Power						
100	1656	2220	392	103.6		
Prime Power						
100	1384	1855	330	87.3		
75	1038	1391	257	68		
50	692	928	180	47.6		
25	346	463	111	29.2		
Continuous Power						
100	1224	1640	299	79		

#### **Cummins G-Drive Engines**

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