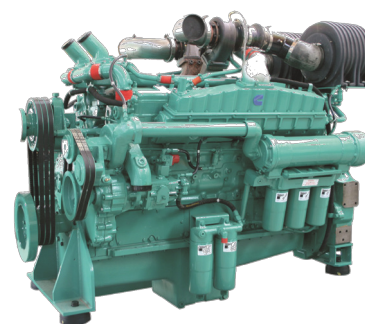




Specification sheet

VTA28-G5



Description

The VTA28-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 VTA28-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.

Aftercooled – Two large capacity aftercoolers result 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.

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

Turbocharger – Two Cummins Turbo Technologies (CTT) turbochargers mounted at top of engine. Turbocharging provides more power, improved fuel economy, altitude compensation and lower smoke.

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.

Codes and standards



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.

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
612/820	560/750	492/660	584/783	538/721	470/630	560	700	509	636	445	556

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
671/900	608/815	504/675	630/845	574/770	470/630	600	750	545	681	442	552

General Engine Data

Type	4 cycle, in line, Turbocharged and after-cooled
Bore, mm	139.7
Stroke, mm	152.4
Displacement, Litre	28
Cylinder Block	Cast iron, 40°V 12 cylinder
Battery Charging Alternator	55A
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)	83
Flywheel Dimensions	SAE 0

Coolpac Performance Data

Cooling System Design	Jacket Water After Cooled
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (l)	126
Limiting Ambient Temp. (°C)**	50.0 (50Hz)
Fan Power (kWm)	19.6 (50Hz)
Cooling system air flow (m ³ /s)**	12.5 (50Hz)
Air Cleaner Type	Dry replaceable element with restriction indicator

** @13 mm H₂O

Weight and Dimensions

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
2371	1457	2092	3215

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
Standby Power				
100	612	820	154	40.8
Prime Power				
100	560	750	140	37
75	420	563	104	27.5
50	280	375	73	19.3
25	140	188	43	11.3
Continuous Power				
100	492	660	122	32.1

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) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
Standby Power				
100	671	900	173	45.7
Prime Power				
100	608	815	154	40.7
75	456	611	118	31.2
50	304	408	84	22.2
25	152	204	50	13.1
Continuous Power				
100	504	675	128	33.9

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