Specification Sheet

M15-G8

Description

Evolved from the proven and successful base engine platform of an automotive engine, the M15 engine utilizes the Cummins High Pressure Injection (XPI) fuel system and is widely accepted for its high levels of in-service reliability and performance.

The M15 engine was developed using Cummins unique in-house capability, adapting core technologies in electronics, fuel systems, turbo charging, filtration. The M15 engine has low derating thresholds for temperature and altitude, which coupled with 55°C ambient capable cooling system, makes these engines top performers in the harshest conditions.

Robust, clean, resilient, and capable of matching the duty cycle and operating conditions of many applications, the M15 engine is suitable for both open and enclosed installations as well as stationary or mobile applications.

CE	This engine has been built to comply with CE certification.
UKCA	This engine has been built to comply with UKCA certification.

Features

Coolpac Integrated Design - Products are supplied complete with cooling package and air cleaner kit fc complete power package. A Heavy-duty air cleaner offered as an option.

Full Authority Electronic Dual Speed Engine - Advanced engine monitoring, diagnostics, protectio and control, coupled with the XPI fuel system, capa of delivering extreme fuel injection pressures with multiple injection events, results in reduced emissio improved fuel efficiency, lower noise and enhanced engine performance.

Fuel Filtration System – Two-stage fuel filtration system provides high levels of protection against fu becoming contaminated with dust, dirt, or water.

Controls - Fitted with a Power Generation Interface (PGI) to improve emissions, the widely accepted SA J1939 industry standard CAN based communicatio network provides advanced engine protection, ensuring faster connectivity along with a superior fault-finding capability.

Crankcase Breather – Cummins patented variable impactor breather design and coalescing filter removes emissions as required by regulations, with the added benefit of eliminating oil drips and mist while keeping the surroundings clean.

Reduced Operating Costs – Extended service intervals for the oil and filter changes.

Service and Support – G-Drive products are backed by an uncompromising level of technical support and after sales support, 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
504/676	458/614	N/A	493/661	447/599	N/A	440	550	400	500	N/A	N/A

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
504/676	458/614	N/A	485/650	439/588	N/A	450	563	409	512	N/A	N/A

General Engine Data

Fuel Rating	FR21636
Type	4 cycle, in-line, turbocharged, Charge Air cooled
Bore mm	135 mm
Stroke mm	169 mm
Displacement litre	14.5 litre
Cylinder block	6 cylinders
Battery charging alternator	90 amps
Starting voltage	24-volt
Fuel system	Cummins XPI
Fuel filter	Spin-on fuel filters with water separator
Lube oil filter type(s)	Spin-on full flow filter
Lube oil capacity (l)	52
Flywheel dimensions	SAE1

Coolpac Performance Data

Cooling system design	Air-air charge cooled
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (l)	83.1
Limiting ambient temp (°C) **	55
Fan power (kWm)	10.8@ 50Hz 18.8@ 60Hz
Cooling system air flow (m^3/s) **	7.7 @ 50Hz 8.7 @ 60Hz
Air cleaner type	Normal duty and Heavy duty, dry replaceable element with restriction indicator

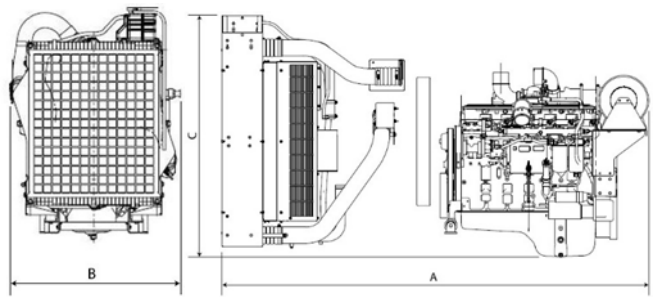
** @ 13 mm H_2O

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/hr	US Gal./hr
Standby Power				
100	504	676	111	29.2
Prime Power				
100	458	614	99	26.2
75	344	461	73	19.3
50	229	307	49	12.8
25	115	154	26	6.9
Continuous Power				
100	N/A	N/A	N/A	N/A

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/hr	US Gal./hr
Standby Power				
100	504	676	114	30
Prime Power				
100	458	614	103	27.1
75	344	461	77	20.2
50	229	307	52	13.8
25	115	154	29	7.7
Continuous Power				
100	N/A	N/A	N/A	N/A



Drawing for illustration purposes only.

Weights and Dimensions

Length mm	Width mm	Height mm	Weight (dry, with normal duty AC) kg
2392	1370	1702	1455

Ratings Definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) 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. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

For more information contact your local Cummins distributor
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