Specification sheet

QSL9-G9

Emissions compliance:
EPA Tier 4 Final @ 50 Hz and 60 Hz
EU Stage IIIA @ 50 Hz and 60 Hz

Description

The QSL9 incorporates the latest diesel engine technology, including a Extra High Pressure Injection (XPI) fuel system for greater fuel efficiency, lower noise and reduced emissions.

The addition of the Cummins Emissions Solution (CES) aftertreatment system achieves Tier 4 Final and EU Stage IIIA emissions by integrating a Cummins Compact Catalyst (CCC), Selective Catalytic Reduction (SCR) and Diesel Exhaust Fuel (DEF) Dosing Module into the diesel engine.

This engine is suitable in all markets and applications that require compliance with EPA Tier 4 Final emissions.

Features

Low Exhaust Emissions – Utilizing an in house design and proven solution for emission control – the QSL9-G9 design has an integrated cooled Exhaust Gas Recirculation (EGR) system, Cummins Compact Catalyst (CCC), Selective Catalytic Reduction (SCR) and Direct Flow™ Air Filter.

Full-Authority Electronic Controls - Integrated system that combines Tier 4 Final aftertreatment electronics into the engine control. Optimizes engine operation and delivers critical information for controlling costs and reducing maintenance. Provides faster processing power and increased memory capability while allowing seamless electronic interface to other systems and seamless integration with other components.

Low-Maintenance Fuel Filter Assembly – The QSL9 uses Fleetguard NanoNet™ fuel filters that utilize nanotechnology in the filtration media, providing an exceptional level of efficiency and harmful particulate removal media. The primary fuel filter incorporates an integral water separator and water-in-fuel sensor.

Dripless Crankcase Breather System – Open, low emission crankcase breather filter system includes coalescing filter to remove emissions as required by regulations – with added benefit of eliminating oil drips and mist.

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

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

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

ISO 9001 — This engine has been designed in facilities certified to ISO9001 and manufactured in facilities certified to ISO9001 or ISO9002.

1800 rpm (60 Hz Ratings)

Gross Engine Output			Typical Generator Set Output					
Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
323/433	293/393	261/350	275	344	250	313	225	261

1500 rpm (50 Hz Ratings)

Gross Engine Output			Typical Generator Set Output					
Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
278/373	253/339	227/305	240	300	220	275	200	250

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General Engine Data

Type	4 cycle, in line, turbocharged, air-cooled
Bore, mm	114
Stroke, mm	145
Displacement, Litre	8.9
Cylinder Block	Cast iron, 6 cylinder
Battery Charging Alternator	70A
Starting Voltage	24V, negative ground
Fuel System	XPI
Fuel Filter	Spin on fuel filters with water separator
Lube Oil Filter Type(s)	Spin on full flow filter
Lube Oil Capacity (l)	18.9
Flywheel Dimensions	SAE 1 / 14

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 and Dimensions

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
1202	914	1268	708

Fuel Consumption 1800 rpm (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
Standby Power				
100	323	433	79	21
Prime Power				
100	293	393	72	19.1
75	220	295	56	14.8
50	147	197	39	10.3
25	73	98	23	6
Continuous Power				
100	261	350	66	17.4

Fuel Consumption 1500 rpm (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
Standby Power				
100	278	373	70	18.4
Prime Power				
100	253	339	63	16.8
75	189	254	47	12.5
50	127	170	31	8.3
25	63	85	18	4.6
Continuous Power				
100	227	305	58	15.2

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

North America
1400 73rd Avenue N.E.
Minneapolis, MN 55432
USA
Phone 1 763 574 5000
Toll-free 1 877 769 7669
Fax 1 763 574 5298

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