# QSL9-G3

# Emissions Compliance: EU Stage IIIA at 50 Hz EPA Tier 3 at 60 Hz



# > Specification sheet

# Cumuning

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#### **Description**

Cummins QSL engines are built to deliver heavy-duty performance in every piece of machinery. Full-authority electronic engine controls combine with the high-pressure fuel system, 24-valve design and centred injectors for one of the highest power-to-weight ratios in its class, with up to 50% torque rise. At the same time, the QSL delivers better fuel economy, has better cold starting capability and is up to 50% quieter in operation than predecessors.



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.

#### **Features**

**Common Rail Fuel System and Controls** - Bosch high pressure common rail (HPCR) - Optimize engine performance to provide seamless integration and advanced diagnostics and programming options.

**Holset HX40 Turbocharging** - Wastegated design optimizes transient response.

**Integrated Block Design** - Integrated fluid circuits replace hoses and eliminate potential leaks.

**24-Valve Cylinder Head** – Four valves per cylinder for increased power with faster response & fuel economy.

**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.

**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 Out	put	Typical Generator Set Output			utput		
Standby	Prime	Base	Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
	kWm/BHP		kWm/BHP		kWe	kVA	kWe	kVA	kWe	kVA	
257/345	227/305	193/259	244/327	217/291	183/379	220	275	200	250	170	213

#### 1800 rpm (60 Hz Ratings)

Gross Engine Output			Net	Engine Out	put	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	
297/399	262/352	178/238	280/375	248/332	164/219	250	313	227	284	194	243





# **General Engine Data**

Туре	4 cycle, in-line, Turbo Charged, Air-cooled			
Bore mm	114 mm (4.5in.)			
Stroke mm	145 mm (5.7in.)			
Displacement Litre	8.8 litre (543 in. <sup>3</sup> )			
Cylinder Block	Cast iron, 6 cylinder			
Battery Charging Alternator	70 amps			
Starting Voltage	24 volt, negative ground			
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 (I)	26.5			
Flywheel Dimensions	2/11.5			

# **Coolpac Performance Data**

Cooling System Design	Air-Air Charge Cooled			
Coolant Ratio	50% ethylene glycol; 50% water			
Coolant Capacity (I)	15.0			
Limiting Ambient Temp.**	53.0			
Fan Power	7.5			
Cooling System Air Flow (m <sup>3</sup> /s)**	9.4			
Air Cleaner Type	Dry replaceable element with restriction indicator			
** @ 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):

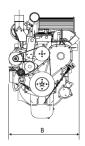
Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

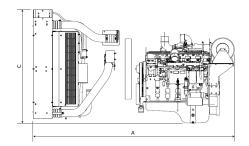
#### Base Load (Continuous) Power (COP):

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
1624	1064	1463	910





#### Fuel Consumption 1500 (50 Hz)

%	% kWm		L/ph	US gal/ph					
Standby Power									
100	257	345	66	17.3					
Prime Power	Prime Power								
100	227	305	59	15.6					
75	170	228	49	13.0					
50	114	152	34	8.9					
25	57	76	18	4.7					
Continuous Power									
100	193	259	53	14.1					

## Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph				
Standby Power								
100	297	399	77	20.4				
Prime Power								
100	262	352	70	18.5				
75	197	264	58	15.2				
50	131	176	41	10.8				
25	66	88	21	5.6				
Continuous Power								
100	178	238	53	14.1				

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

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