

QSX15-G15



Emissions Compliance:

EPA Tier 4i

EU Stage IIIA

> Specification sheet



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Description

The QSX15 engine is designed to meet the U.S. Environmental Protection Agency (EPA) Tier 4 Interim and European Union (EU) Stage IIIA genset emission standards. The QSX15 Tier 4i engine utilizes cooled Exhaust Gas Recirculation (EGR), Cummins High Pressure Injection (XPI) fuel system and a variable geometry turbocharger (VGT). A Cummins particulate filter (DPF) exhaust aftertreatment system is required to meet the mandated emission standards.

The 15 litre, six-cylinder QSX15 engine is ideally suited to both open and containerised applications in static or portable genset equipment. It can be matched to meet specific duty cycle and operating conditions of any genset.



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

Cummins Extra High Pressure Injection (XPI) Fuel System – Most capable common-rail fuel system utilized on a heavy-duty engine, enabling faster, smoother power delivery with lower fuel consumption.

Diesel Particulate Filter (DPF) - A state of the art, efficient exhaust diesel particulates filter that reduces particulate matter by over 90%.

Turbocharger System – A new electronic variable geometry turbocharger (VGT) is used, which is able to continuously vary airflow boost and manage the EGR.

Exhaust Gas Recirculation (EGR) System – Proven cooled EGR system that reduces nitrogen oxide (NOx) emissions.

Crankcase Breaker – Utilizes a “dripless” crankcase breather system.

Electronic Control System – Provides faster processing power and increased memory capability while allowing seamless electronic interface to other systems.

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			Typical Generator Set Output					
Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
414/555	376/504	338/453	360	450	327	409	285	356

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
468/627	424/569	382/512	400	500	364	455	324	405

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General Engine Data

Type	4 Cycle, In-line, Turbocharged Charge Air Cooled and EGR
Bore mm	137 mm (5.39 in.)
Stroke mm	169 mm (6.65 in.)
Displacement Litre	14.9 litre (912 in. ³)
Cylinder Block	Cast iron, 6 cylinder
Battery Charging Alternator	35 amps
Starting Voltage	24 volt
Fuel System	XPI
Fuel Filter	Primary spin-on fuel filter – OEM Fitted Secondary fuel filter with water separator
Lube Oil Filter Type(s)	Spin-on full flow filter
Lube Oil Capacity (l)	91.0
Flywheel Dimensions	SAE1

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.

Engine Weight & Dimensions

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
1528	1257	1107	1436

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
Standby Power				
100	414	555	96	25.4
Prime Power				
100	376	504	88	23.4
75	282	378	68	18.1
50	188	252	47	12.5
25	94	126	28	7.3
Continuous Power				
100	338	453	80	21

Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
Standby Power				
100	468	627	116	30.6
Prime Power				
100	424	569	104	27.5
75	318	427	79	21
50	213	285	55	14.6
25	106	142	32	8.4
Continuous Power				
100	382	512	94	24.9

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