

Specification sheet

QSX15-G4

TA Luft Compliant



Description

The QSX15-Series is the first heavy-duty diesel with 24-valve dual overhead camshaft technology. Yet it has an impressive 30% fewer parts than comparable diesels and a utilised design, which eliminates external lube, coolant and fuel lines leading to higher reliability for such a high power output.

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 equipment has been built to comply with CE certification requirement subject to EU RoHS exclusion per EU 2011/65.



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

Features

Holset HX82 Turbocharging - Wastegated design optimizes operation across the torque curve with improved response.

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

High-Pressure Fuel Injection - Capable of over 1,900 bar (28,000 psi) for cleaner, more fuel-efficient combustion.

24-Valve Cylinder Head – Four valves per cylinder for increased power with faster response at every rpm.

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 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
407/545	366/490	257/345	385/516	348/466	239/320	360	450	327	409	224	280

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
455/610	414/555	295/395	419/561	383/514	264/354	400	500	355	445	245	305

General engine data

Type	4 cycle, inline, turbocharged, Air-cooled
Bore mm	137.0 mm (5.39 in.)
Stroke mm	169.0 mm (6.65 in.)
Displacement litre	15.0 litre (912 in. ³)
Cylinder block	Cast iron, 6 cylinder
Battery charging alternator	35 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 (l)	91.0
Flywheel dimensions	SAE1

Coolpac performance data

Cooling system design	Air-air Charge Cooled
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (l)	42.0
Limiting ambient temp.** (°C)	55
Fan power (kWm)	16
Cooling system air flow (m ³ /s)**	11.8
Air cleaner type	"Light duty" Dry replaceable element with restriction indicator

** @ 13 mm H₂O

Fuel consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	407	545	94.1	24.9
Prime Power				
100	366	490	85.7	22.6
75	275	368	67	17.7
50	183	245	45.7	12.1
25	92	123	26.6	7
Continuous Power				
100	257	345	63.6	16.8

Fuel consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	455	610	107.3	28.4
Prime Power				
100	414	555	97.6	25.8
75	311	416	75.2	19.9
50	207	278	53.4	14.1
25	104	139	31.8	8.4
Continuous Power				
100	295	395	72.2	19.1

Weights and dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
2269	1332	1669	1658

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.