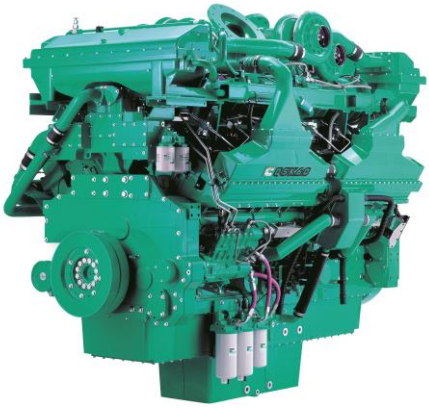
Specification sheet

QSK60-G12

Fuel Optimized



Description

The QSK60 is a V 16 cylinder engine with a 60 litre displacement. This Quantum series utilizes sophisticated electronics and premium engineering to provide outstanding performance levels, reliability and versatility for Standby, Prime and Continuous Power applications.

CE	This equipment has been built to comply with CE certification requirement subject to EU RoHS exclusion per EU 2011/65.
Registered To ISO 9001	This engine has been designed in facilities certified to ISO9001 and manufactured in facilities certified to ISO9001 or ISO9002.

Features

High pressure fuel pump, Modular Common Rail fuel System (MCRS) and state of the art integrated electronic control system provide superior performance, efficiency and diagnostics. The electronic fuel pumps deliver up to 1600 bar injection pressure and eliminate mechanical linkage adjustments. The new MCRS utilizes an electric priming pump which is integrated with the off-engine stage-1 fuel filter head and is controlled and powered by the engine ECM. The stage-2 fuel filters are mounted on-engine.

CTT (Cummins Turbo Technologies) HX82/HX83 turbocharging utilizes exhaust energy with greater efficiency for improved emissions and fuel consumption.

Low Temperature After-cooling - Two-pump Two-loop (2P2L)

Ferrous Cast Ductile Iron (FCD) Pistons - High strength design delivers superior durability.

G-Drive Integrated Design - 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.

Coolpac Integrated Design - Products are supplied complete with cooling package and air cleaner kit for a complete power package. Each component has been has been specifically developed and rigorously tested for G-Drive products, ensuring high performance, durability and reliability

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
1740/2332	1575/2111	1306/1750	1688/2263	1540/2065	1270/1703	1600	2000	1460	1825	1219	1524

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
2180/2922	1975/2647	1740/2332	2120/2842	1937/2597	1702/2282	2000	2500	1825	2281	1633	2042

General engine data

Type	4 cycle, turbocharged, After-cooled
Bore mm	159
Stroke mm	190
Displacement litre	60.2
Cylinder block	Cast iron, 16 cylinder
Battery charging alternator	55 amps
Starting voltage	24 volt, negative ground
Fuel system	Direct Injection Cummins MCRS
Fuel filter	Spin-on fuel filters with water separator
Lube oil filter type(s)	Spin-on full flow filter
Lube oil capacity (l)	280
Flywheel dimensions	SAE 0

Coolpac performance data

Cooling system design	2 pump - 2 loop			
Coolant ratio	50% ethylene glycol; 50% water			
Coolant capacity (l)	535 (40C Rad.)		603 (50C Rad.)	
Limiting ambient temp.** (°C)	47 (50Hz)	34 (60Hz)	52 (50Hz)	47 (60Hz)
Fan power (kWm)	46 (50Hz)	46 (50Hz)	39 (50Hz)	66 (60Hz)
Cooling system air flow (m^3/s)**	35 (50Hz)	35 (60Hz)	31 (50Hz)	39 (60Hz)
Air cleaner type	Dry replaceable element with restriction indicator			

** @ 13 mm H_20

Fuel consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	1740	2332	415	109.5
Prime Power				
100	1575	2111	375	98.9
75	1182	1584	282	74.3
50	788	1056	195	51.4
25	394	528	113	29.8
Continuous Power				
100	1306	1750	312	82.3

Fuel consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	2180	2922	556	146.6
Prime Power				
100	1975	2647	495	130.6
75	1481	1985	376	99.1
50	987	1324	249	65.8
25	494	662	144	38.0
Continuous Power				
100	1740	2332	446	117.8

Weights and dimensions

Length mm	Width mm	Height mm	Weight (dry) kg	
4893	2468	2943	10295	(40C Rad.)
5176	2468	3868	11010	(50C Rad.)

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 or visit cummins.com

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QSK60-G12 (4/19)