QSK19-G2

Emissions Compliance: EPA NSPS Stationary Emergency Tier 2



> Specification sheet



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Description

The QSK19 is an in-line 6 cylinder engine with a 19 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.



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

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) HX83 turbo-charging utilizes exhaust energy with greater efficiency for improved emissions and fuel consumption.

Charge Air Cooling – QSK19 engine requires the use of an Air-to-Air heat exchanger or Charge-Air-Cooler (CAC) to reduce intake manifold temperature and to meet the lower emissions requirements

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.

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
605/811	533/715	321/430	580/778	514/689	302/405	528	660	480	600	284	355

1800 rpm (60 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
634/850	556/745	459/615	593/795	522/700	425/570	550	688	500	625	400	500

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General Engine Data

Туре	4 cycle, Turbocharged			
Bore mm	159			
Stroke mm	159			
Displacement Litre	19			
Cylinder Block	Cast iron, 6 cylinder			
Battery Charging Alternator	35A			
Starting Voltage	24V			
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 (I)	84			
Flywheel Dimensions	SAE 0			

Coolpac Performance Data

Cooling System Design	Air-air charge cooled			
Coolant Ratio	50% ethylene glycol; 50% water			
Coolant Capacity (I)				
Limiting Ambient Temp.**	Engine only not applicable			
Fan Power	Engine only – not applicable			
Cooling System Air Flow (m³/s)**				
Air Cleaner Type	Dry replaceable element with restriction indicator			
** @ 13 mm H ² 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
1695	985	1723	1900

Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph					
Standby Power									
100	605	811	150	39.5					
Prime Power									
100	533	715	133	35.1					
75	400	536	102	26.8					
50	267	358	71	18.6					
25	133	179	38	9.9					
Continuous Power									
100	321	430	84	22.2					

Fuel Consumption 1800 (60 Hz)

%	kWm	ВНР	L/ph	US gal/ph					
Standby Power									
100	634	850	162	42.9					
Prime Power									
100	556	745	140	37.0					
75	417	559	104	27.5					
50	278	373	76	19.9					
25	139	186	43	11.4					
Continuous Power									
100	459	615	115	30.3					

Cummins G-Drive Engines

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