QSK78-G8

Emissions Compliance: EPA Tier 1 @ 60 Hz



> Specification sheet

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Description

The QSK78 is a V 18 cylinder engine with a 78 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.



The new 4-turbo design architecture QSK78 uses the Cummins High Pressure Injection (HPI) PT full authority electronic fuel system. The HPI PT fuel system is managed by a G-Drive Governor Control System (GCS) controller, which is provided for off-engine mounting in the genset control panel. The Quantum Control has a specific fuel system board to interface with the HPI-PT fuel system and provides an Engine Protection package giving greater customer flexibility and cost effective alternatives in the control design and the benefits of Full Authority electronic control.

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.

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	
3028//4060	2737/3670	2397/3215	2957/3965	2696/3615	2355/3159	2750	3438	2500	3125	2200	2750

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General Engine Data

4 cycle, Turbocharged, After-cooled		
170		
190		
77.6		
Cast iron, 18 cylinder		
55A		
24V		
Direct injection Cummins HPI		
Spin on fuel filters with water separator		
Spin on full flow filter		
465		
SAE 00		

Coolpac Performance Data

Cooling System Design	2 pump - 2 loop		
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 (m ³ /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	
3062	1570	2031	9180	

Fuel Consumption 1800 (60 Hz)

%	% kWm		L/ph	US gal/ph		
Standby Power						
100	3028	4060	701	185.3		
Prime Power						
100	2737	3670	634	167.6		
75	2053	2753	500	132.1		
50	1368	1835	352	93.0		
25	685	918	201	53.2		
Continuous Power						
100	2397	3215	569	150.4		

Cummins G-Drive Engines

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