# QSK23-G6

Emissions Compliance: EPA Tier 2 @ 60 Hz



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## **Description**

The QSK23 is an in-line 6 cylinder engine with a 23 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**

The QSK23 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 turbo-charging** utilizes exhaust energy with greater efficiency for improved emissions and fuel consumption.

**Charge Air Cooling** – QSK23 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

**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

## 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	
854/1145	768/1030	627/840	816/1094	739/991	598/802	750	938	682	852	562	702

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## **General Engine Data**

Туре	4 cycle, Turbocharged			
Bore mm	170			
Stroke mm	170			
Displacement Litre	23.1			
Cylinder Block	Cast iron, 6 cylinder			
Battery Charging Alternator	35A			
Starting Voltage	24V			
Fuel System	Direct injection Cummins HPI			
Fuel Filter	Spin on fuel filters with water separator			
Lube Oil Filter Type(s)	Spin on full flow filter			
Lube Oil Capacity (I)	103			
Flywheel Dimensions	SAE 0			

## **Coolpac Performance Data**

Cooling System Design	Air-air charge cooled		
Coolant Ratio	50% ethylene glycol; 50% water		
Coolant Capacity (I)	57		
Limiting Ambient Temp (℃)**	50.1		
Fan Power (kWm)	26.1		
Cooling System Air Flow (m <sup>3</sup> /s)**	23.6		
Air Cleaner Type	Dry replaceable element with restriction indicator		
** @ 10 mm H40			

\*\* @ 13 mm H<sup>2</sup>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	
2885	1656	2029	3185	

## Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph		
Standby Power						
100	854	1145	195	51.5		
Prime Power						
100	768	1030	177	46.6		
75	576	773	143	37.7		
50	387	515	100	26.5		
25	192	258	53	14.4		
Continuous Power						
100	627	840	154	40.5		

#### **Cummins G-Drive Engines**

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