

# S3.8 G7 CoolPac



## > Specification sheet

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### Description

The Cummins 'S Series' engine powered CoolPac sets offer the lowest cost of maintenance thereby proving to be the most economical power solution. With the robust design and integrated technologies, the 'S Series' CoolPac can command an unrivalled reputation for reliability and performance.

The Cummins 'S Series' engine powered CoolPac sets give you the advantage of optimising your valuable space. All elements of the CoolPac sets are designed from the start to work together to maximize efficiency, even at part loads, thus offering you the advantage of lowest operating costs.

The rugged and reliable Cummins 'S Series' CoolPac sets are unique, because all the major components – the engine and cooling system are manufactured by Cummins India. This integral approach means each element of a CoolPac set is designed to work in harmony from the start.



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

Engine : Cummins 'S Series' CoolPac, powered by Cummins 'S Series' engines, are rated at 1500 RPM and conform to ISO 8528 specifications. The engines are radiator cooled, four stroke and multi-cylinder, conforming to BS 5514/ISO 3046.

The scope of Supply includes :

- Battery Charging Alternator
- Bosch In-line fuel system with mechanical governor
- Dual spin-on fuel filters
- Lube oil filter
- Turbocharger
- Charge Air Cooler (CAC)
- Dry type Air Cleaner
- Coolant recovery bottle
- Fuel pump shut-off coil with Temperature, Pressure & Magnetic Speed sensors
- Flywheel and flywheel housing
- CE compliant guarding
- Oil drain valve

**Integrated Design** - CoolPac products are supplied fitted with cooling package and medium duty air cleaner 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
64.9/87	59.6/79.9	41.7/55.9	62.9/84.2	57.6/77.1	39.7/53.1	52.8	66	48	60	33.6	42

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## General Engine Data

Type	In line, Radiator cooled
Bore mm	97
Stroke mm	128
Displacement Litre	3.8
Cylinder Block	Cast Iron, 4 Cylinder
Battery Charging Alternator	12V, 35 Amps
Starting Voltage	12V
Fuel System	Direct Injection
Fuel Filter	Spin on
Lube Oil Filter Type(s)	Spin on
Lube Oil Capacity (l)	11
Flywheel Dimensions	SAE3/10

## CoolPac Performance Data

Cooling System Design	Charge Air & Jacket Water Cooled
Coolant Ratio	50:50
Coolant Capacity (l)	11
Limiting Ambient Temp. (degC)**	50
Fan Power (Kw)	2
Cooling System Air Flow (m <sup>3</sup> /s)**	0.99
Air Cleaner Type	Dry Type, Replaceable, medium duty

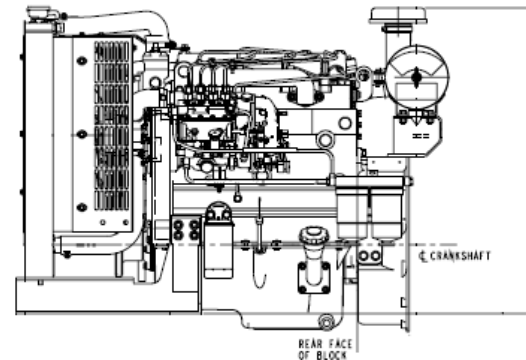
\*\* @ ¼" H<sub>2</sub>O

## Weight & Dimensions

Length	Width	Height	Weight (dry)
mm	mm	mm	kg
1290	910	1080	500

## Fuel Consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	64.9	87	16.1	4.3
<b>Prime Power</b>				
100	59.6	79.9	14.7	3.9
75	44.7	59.9	11.0	2.9
50	29.8	40	6.1	1.6
25	14.9	20	4.5	1.2
<b>Continuous Power</b>				
100	41.7	55.9	10.6	2.8



## 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 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.

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