

# S3.8-G8 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 S series Engines have a distinguished reputation and long history for durability.

The rugged and reliable Cummins 'S Series' Engines gives you a compact high performance engine design for your generator application.



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

**Bosch** - Direct injection in-line pump for cleaner, more efficient fuel consumption.

**12 volt electrics package** as standard, with starter, alternator and fuel solenoid.

SAE '3/10' flywheel.

**Low-Maintenance Fuel Filter Assembly** – The Fuel filter Incorporates an integral water drain facility and a 500-hour filter life using standard Fleetguard® filters.

**Low-Maintenance Lube Oil Filter Assembly** – The Lube Oil filter also has a 500-hour filter life using standard Fleetguard® filters.

**Cooling system** - 55 Deg.C Limiting Ambient Temperature @ 0.5" H<sub>2</sub>O duct restriction.

**Air cleaner** - Medium Duty with 15 g/cfm dust Holding Capacity.

**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.

### 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
48.5/65	44/59	36.5/49	50/67.5	45/61	32/43 .5	40	50	36	45	25	31.5

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## General Engine Data

Type	4- cycle, In-line, 4- cylinder, Turbocharged , Diesel
Bore mm	97 mm (3.82 in)
Stroke mm	128 mm (5 in)
Displacement Liter	3.8litres (232 in 3)
Cylinder Block	Cast Iron, 4 Cylinder
Battery Charging Alternator	12V, 40 Amps
Starting Voltage	12 V
Fuel System	Direct Injection
Fuel Filter	Spin on
Lube Oil Filter Type(s)	Spin on
Lube Oil Capacity with filters (l)	10
Flywheel Dimensions	SAE 3/10

## CoolPac Performance Data

Cooling System Design	Jacket Water Cooled
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (l)	12.5
Limiting Ambient Temp. **	55 Deg C
Fan Power (Kw)	2.4
Cooling System Air Flow (m <sup>3</sup> /s)**	2.07
Air Cleaner Type	Medium Duty Dry replaceable element with restriction indicator

\*\* @ 0.5" H<sub>2</sub>O

## Weight & Dimensions

	Length	Width	Height	Weight (dry)
	mm	mm	Mm	Kg
Shipping	1380	880	1250	560
CoolPac	1288	789	1075	456

## Fuel Consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	US gal/ph
<b>Standby Power</b>				
100	48.5	65.0	12	3.0
<b>Prime Power</b>				
100	44.0	59.0	11	3.0
75	33.0	44.0	8.5	2.0
50	22.0	29.5	6.0	1.5
25	11.0	15.0	4.0	1.0
<b>Continuous Power</b>				
100	36.5	49.0	9.5	2.5

## Cummins G-Drive Engines

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## 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) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.