



# S3.8-G7

Fuel Optimized



## 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 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.

**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	53	66	48	60	34	42

## 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
-	-	-	-	-	-	-	-	-	-	-	-

## General engine data

Type	In line, Radiator cooled
Bore mm	97 mm (3.82 in.)
Stroke mm	128 mm (5.0 in.)
Displacement litre	3.8 litre (232 in. <sup>3</sup> )
Cylinder block	Cast iron, 4 cylinder
Battery charging alternator	12V, 35 amps
Starting voltage	12 volt, negative ground
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% ethylene glycol; 50% water
Coolant capacity (l)	11
Limiting ambient temp.** (°C)	50
Fan power (kWm)	2
Cooling system air flow (m <sup>3</sup> /s)**	0.99
Air cleaner type	Dry type, replaceable, medium duty

\*\* @ 0.25" H2O

## Fuel consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	g/kWh
<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

## Fuel consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	g/kWh
<b>Standby Power</b>				
100	-	-	-	-
<b>Prime Power</b>				
100	-	-	-	-
75	-	-	-	-
50	-	-	-	-
25	-	-	-	-
<b>Continuous Power</b>				
100	-	-	-	-

## Weights and dimensions

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

## Ratings definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
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.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	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.	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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