

# S3.8-G8 CoolPac



## Specification sheet

Our energy working for you.™



### 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<br>.5 | 40                           | 50  | 36          | 45  | 25         | 31.5 |

Our energy working for you.™

[www.cumminsgdrive.com](http://www.cumminsgdrive.com)

©2011 | Cummins G-Drive Engines | Specifications Subject to Change Without Notice | Cummins is a registered trademark of Cummins Inc. GDSS186 RevA



## 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  |

## 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.

## 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

### Asia Pacific

10 Toh Guan Road  
#07-01  
TT International  
Tradepark  
Singapore 608838  
Phone 65 6417 2388  
Fax 65 6417 2399

### Europe, CIS, Middle

**East and Africa**  
Manston Park Columbus  
Ave  
Manston Ramsgate  
Kent CT12 5BF. UK  
Phone 44 1843 255000  
Fax 44 1843 255902

### Latin America

Rua Jati, 310, Cumbica  
Guarulhos, SP 07180-  
900  
Brazil  
Phone 55 11 2186 4552  
Fax 55 11 2186 4729

### Mexico

Cummins S. de R.L. de C.V.  
Eje 122 No. 200 Zona Industrial  
San Luis Potosí, S.L.P. 78090  
Mexico  
Phone 52 444 870 6700  
Fax 52 444 870 6811

### North America

1400 73rd Avenue N.E.  
Minneapolis, MN 55432  
USA  
Phone 1 763 574 5000  
USA Toll-free 1 877 769 7669  
Fax 1 763 574 5298

Our energy working for you.™

[www.cumminsgdrive.com](http://www.cumminsgdrive.com)

©2011 | Cummins G-Drive Engines | Specifications Subject to Change Without Notice | Cummins is a registered trademark of Cummins Inc. GDSS186 RevA

